he Mining Journal RAILWAY AND COMMERCIAL GAZETTE.

No. 719 .--- Vol. XIX.]

LONDON, SATURDAY, JUNE 2, 1849.

PRICE 6D.

Stannaries of Cornwall—In the Vice-Warben's Court SIMMONS T. MALCOLM, IN RE MINERAL COURT MINE, AND TENTHERS, IN MARWELL.

IN THE PARISH OF SAIRT STRIFFIERS, IN MARWELL.

OTICE IS HEREBY GIVEN, that, pursuant to an Order, of Decree, made in this cause, and bearing date the 18th day of May instant, a BLIC AUCTION will be HELD at PEARCE'S ROYAL HOTEL, TRURG, on Thurst, the 14th day of June next, at Four colock in the afternoon, for SELLING TWO 6ths) PARTS, or SHARES, of and in the said MINE, and its ORES, HALVANS, OR INTERNAL SHARES, and MATERIALS.

on may be made to Captain Webb, on the mine, or to Mr. G. N. SIMMONS, Solicitor, Truro. Dated Registrar's Office, Truro, May 29, 1849.

Dated Registrar's Office, Truro, May 39, 1849.

AT ST. ROLLOX, GLASGOW—STR, 6TR, AND THE JUNE.

TO RAIL WAY CONTRACTORS, TIMBER MERICHANTS, BUILDERS, IRONFOUNDERS, ERGINEEERS, MILLWRIGHTS, SMITHS, &c.

MESSRS. HUTCHISON & DIXON have again been favoured
with instructions from Messra. John Stephenson and Co., railway contractors, to
SELL, BY AUCITON, on Tuesday the 5th, Wednesday the 6th, and Thursday the 7th
of June, commencing at Eleven o'clock A.M. each day, at the Yard, Inchebily-road, insmediately behind the Celedonian Railway Company's engine sheels, St. Rollox, Glasgow,
a most valuable and extensive lot of

RAILWAY MATERIALS, STEAM-ENGINES, &c.,

Used in the construction of the Scottish Central and Midland Railways.
Among the articles may be enumerated, a large quantity of earth waggons, wheels and
asles, loose axles, crab winches (single and double powers), travelling cranes, quarry
cranes, etcam cranes, a number of Henderson's patent derrick cranes, pumps, various
sizes (from 6 to 12 inches), with buckets, rods, and bell cranks, a very large quantity of
ironwork for eight waggons, amiliar's bellows, anvils, iron sheave and match blocks,
westen sheave blocks, tackle fulls, fans, boggies, dobbing carts, timber and stone wagquantity of double shear and cast steel, bar iron, &c.

A HORIZONTAL High-PRESSUE STEAM-ENGINE, cylinder 10 inches diameter,
and 18-inch stroke, with boller and mounting.

A BEAM HIGH-PRESSUE STEAM-ENGINE, with moving column, cylinder 15 in.
diameter, and stroke, with boller and mounting.

The above PLANT is in excellent condition, and to parties entering into contracts, this
addivallib efound a most advantageous opportunity of purchasing valuable materials,
net often to be acquired at a cheap rate.

Catalognes will be ready eight days provious to sale, and may be had at the contractor's
effects in Liverpool, Carible, Perth, Greenock; or here at Mesers. P. and W. M-Lelian's,
1985 Trengake, and the Black Ball Sale Rooms, Glasgow, May 22, 1849.

EXTENSIVE IRON-WORKS FOR SALE.

UPSET

EXTENSIVE IRON-WORKS FOR SALE.
UPSET PRICE FURTHER REDUCED TO \$45,000

UPSET PRICE FURTHER REDUCED TO \$45,000.

TO BE SOLD, BY PUBLIC ROUP, within the Royal Exchange Sale Rooms, GLASGOW, upon Wednesday, the 13th day of June next at One o'clock afternoon (if not previously disposed of by private baryah).

bislonging to the Ayrahire Iron Company, altuated in the parish of Dalry and county of Ayr, including FIVE BLAST-FURNACES, with TWO BLOWING-ENGINES, fit for these and additional furnaces, manager and workmen's houses and stove, together with a large extent of MINERAL FIELDS, held under most favourable leases, producing Iron stone of the best qualities, Coal, Limestone, and Fire-clay, with Pits, Steam-Engines, and necessary, appurtenances for carrying on the works on an extensive scale; also the adjusting MALLEABLE IRON-WORKS.

So far as crecked—all having a connection with the Glasgow and Ayr Rallway, and as single fully described in former advertisements.

There is a large stock of ironstone on the ground, which may be got at a valuation. For particulars apply to Mr. Biggart, at the works; W. D. Starling, Eeg., 12, Changesiley, Birchin-lane, London; Mr. Watson, 33, or Mr. Brown, 35, St. Vincent-street, Glasgow, May 10, 1849.

CALLE OF MODIUM BLUE COLOUR WORK SMALT.

SALE OF MODUM BLUE COLOUR WORK, SMALT WORKS, AND COBALT MINES, IN NORWAY.

**SALE OF MODUM BLUE COLOUR WORK, SMALT WORKS, AND COBALT MINES, IN NORWAY.

**The SALE of the PROPERTY bolonging to the copartnership called MODUM BLUE COLOUR WORKS, will be HELD at the 'GRANGE OF FOSSUM, in the parish of MODUM, Balliceship Buskerud, Bishoprischristianis, in the kingdom of NORWAY.

ON WEDNESDAY, THE 20TH OF JUNE, 1849.

**AT EXPENS COLOUR A.M.,

Consisting of the BLUE COLOUR WORKS, MINES, BUILDINGS, LANDS, FORESTS, SAW and CORN MILLS, as well as all IMMOYABLES belonging to the WORKS, besides all RIGHTS and PRIVILEGES belonging to the 185E, HALF MANU-PACTURED GOODS, and INVENTORY, boding in STOCK at the WORKS, or ELSE-WHERE DEPOSITED and MORTGAGED in NORWAY.

The STOCK of MANUFACTURED BLUE COLOURS (smalts) will BE SOLD SE-PARATELY.—The buyer acquires the claims of the works against the labourers and others. The provisional notice of the Sale of the Modum Blue Colour Works appeared in this paper on the 28th April, with a short description of the property, and on the 12th May, with further particulars.

The conditions of sale will be lodged in due time.

Möllenhod, near Drammen, the 28th April, 1849.

Inquires may be addressed to Goodhall and Revew, London.

TO ENGINEMAKERS, BOILERMAKERS, IRONFOUNDERS, AND

Möllenhof, near Drammen, the 23th April, 1849.

Inquiries may be addressed to Goodhall and Reeves, London.

TO ENGINEMAKERS, BOILERMAKERS, IRONFOUNDERS, AND IRONMASTERS IN GENERAL.

M. G. O. BROWN begs to announce that he has received instructions from the proprietors of MILTON IRON-WORKS, near BARNSLEY, to submit to FUBLIC COMPETITION, BY AUCTION, on Monday, the 28th day of June neck, and following days (Saturdays and Sundays excepted), until the whole are sold, at the WORKS, the EXTENSITY OF THE STOCK OF

Railway.

An to be made to ireat by private contract for the last-mentioned articles to

m, of Darley Hall, near Barnsley; or to Mr. Woodhouse, of Overscal, near

O BE SOLD, BY PRIVATE TREATY, A VALUABLE TIN and SILVER-LEAD MINE, situate in the parish of CALSTOCK, in the try Corwall.—The set is extensive, and cointains several valuable TIN and SILVER-LD LODES, in a beautiful clay-sizes strate, which holds out great promise of become I and SILVER-LEAD MINE nwall. -The sett is extensive, a DES, in a beautiful clay-slate

y a rich and lasting mine. The differents agents who have inspected the mine span-them in the most encouraging terms, and strengtly recommend the working of the ere are also the requisite mine buildings—vin., counting-house, blueksmiths' and car-nters' shops, material-house, a say offices. The property is held under a less for 31 years, 30 of which are unexpired, at 1-16 in dues betailed particulars may be obtained, either by personal application or by letter (pre-id), to the proprieter, Mr. Wm. Bise, Callington; or at the office of the Missing Journal, Iteat-streat_Jones.

FOR EVERY HOHER IN THE KINGDOM.

HARPER TWELVETREES' GENUINE CONCENTRATED WASHING PERPARATION, for accomplishing a week's wash in 1s
hour, and is warranted not to injure the finest abric.—Said by all chemists and oilmen,
in bottles, at 6d., is., and is. 6d. The is. 6d. bottles contain sufficient for 48 gallons of
water, which will boil three lots of clothes, being equal to 144 gallons.

All the leading journals in the kingdom have spoken favourably of this invaluable procose, now adopted in most of the indirmaries, asylums, public institutions, and families
throughout the kingdom.

water, which whi our successful and the kingdom have spoken lavour and the leading journals in the kingdom have spoken lavour the kingdom.

All the leading journals in the kingdom have spoken lavour the kingdom throughout the kingdom.

MANUFACTURED only by TWELVETREES, BROTHERS, Ink and Blacking Man MANUFACTURED only by TWELVETREES, BROTHERS, Ink and Blacking Man Lacturers, Millman-street, Bedford-row, London, wholesale and for caportation.

Two throughout the kingdom and the lacturers, Millman-street, Bedford-row, London, Sold wholesale by Barclay and Sons, Sutton, Edwards, Hansey, &c.

Me Chemical or Potsah preparations are introduced, which are notoriously adjust to linear.—MANUFACTORY—MILLMAN-STREET, HEDFORD-ROW, LOMDON, to linear.—MANUFACTORY—MILLMAN-STREET, HEDFORD-ROW, LOMDON.

GROWA SLATE COMPANY,

FREVALGA, CORNWALL.

NOW IN WORK ON THE "COST-BOOK" PRINCIPLE.

The QUARRY is situated on the CLIFFS, within one mile of the port of Boscastel—
vessels load at the quarry during three-fourths of the year.

The SLATE forms a remarkable exception to the general constitution of this mineral; and whilst its applicability to the several purposes of roofing, flooring, and the usual adaptations of the grey, blue, and other states, a new series of utilities has been developed to the directors (by a gentleman who has, in consequence, been appointed superintending engineer to the company), which will extend its application in a variety of preparation to an extensive and completely novel character of uses.

A FATENT is in course of completion, for the purpose of securing to the shareholders in this undertaking the exclusive benefits to be derived from one of the most attractive discoveries of the present age.

Prospectuses, and all other information, may be obtained at the offices of the company 57, Threadnesofie-street, where specimens of the slate may be seen; or to the solicitor, John Chapple, Esq., 70 A, Aldermanbury. Prospectuses can also be had at the office o, the Missing Journal, 36, Fleet-street.

London, May 16, 1849.

DUISBURG IRON-WORKS AND MINES,

Managed in England according to the principles of the "Cost-book System," and in

their personal subscription.

Company's Offices, 28, Moorgate-street, City.

PREVENTION BETTER THAN A CURE.—RAILWAY
COMPANIES, OWNERS and PROPRIETORS OF STEAM MACHINERY In
curril are respectfully informed, that the ONLY INFALLIBLE METHOD OF

general are respectfully informed, that the ONLY INFALLIBLE METHOD OF
PREVENTING BOILER INCRUSTATIONS
is that lately PATENTED by Mr. HORSLEY, which, while it effects a considerable saving
of time, fuel, wear and tear of machinery, tends greatly to DIMINISH, if not altogether
to PREVENT, the POSSIBILITY OF EXPLOSIONS.—No destructive ammoniacal or
other salt is introduced into the boiler.
As this Patent embraces a field of so extensive a character, applying equally to Water
Companies and Manufacturers, it is the intention of the proprietors to FORM a COMPANY, so soon as a sufficient number of Latividuais can be got together.
For further particulars and prospectures, apply to Mr. Horsiey, Ryde, Isle of Wight;
of Mr. Campin, Patent Office, 210, Strand; or the office of the Mining Journal, No. 26
Fleet-street, London.

TRUVE'S PATENT MINE VENTILATOR.

TO COLLIERT PROPRIETORS.

Quantity of air passed through a Mine almost unlimited, to the extent of 200,000 cubic feet per minute, if necessary—depending on size of apparatus.

No injury to pumps, tubbing, chains, ropes, or pitwork.

Goaves kept clear.

Not influenced by barometrical and thermometrical changes in the atmosphere, or by wind.

y wind
Current of air undeviating.
Current of air undeviating.
LICENSES will be GRANTED on application to
Mr. WILLIAM PRICE STRUVE, C.E., Swar
Mr. WILLIAM PRICE STRUVE, C.E., Swar
Near Nearh, and

The ventilator has been erected at the Eaglesbush Colliery, near Neath, and is per feetly efficient, and may be viewed on application to the proprietors, Messrs. Penros and Evans, Neath.

THE PATENT SAFETY FUSE, OPERATIONS.—This article affords the SAFETY FUSE, OPERATIONS.—This article affords the SAFEST, CHEAPEST, and most EXPEDITIOUS MODE of effecting this very heardless operation. From many testimonies to its usefulness with which the manufactures have been favoured from your yet partie the kingdom, they select the following lether, recenity received from John Taylor, Eaq. F.R.S. &c.:—"I am very glad to hear that my recommendations have been of any service to you; they have been given from a thorough conviction of the great usefulness of the Safety Fuse; and I am quite willing that you should employ my agains as evidence of this. Manufactured and sold by the Patentees, BICKFORD, SMITH, and DAVET, Camborne, Cornwall.

WARRANTED SAFETY FUSE.—W. BRUNTON & CO. beg to inform Mine Agents, Contractors, and Merchants, that having completed heir Machinery for the MANUFACTURE of the ABOVE ARTICLE, they are enabled to offer FUSE of a very superior quality, and at considerably reduced prices.

W. B. & O. can SUPPLY FUSE in ANY LENGTHS that may be required. Penhellick Fuse Factory, Pool, Truro, Cornwall.

We, the undersigned, hereby bear our testimony to the excellence of the Safety Fuse nanufactured by Mesers. Brunton and Co. We have had it in use in our mines; and, fier sufficient trial, find it to be fully equal to any Fuse we have ever used:—

Cars Brea Mine.

R. H. Pike Purser.
John Leuten,
James Miners,
John Vivian,
John James,

South Roskear Agents, John Dunkin. William Thomas.

Cook's Kitchen Agents
seph Vivian.

Cook's Kitchen Agents. John Ivey. William Hitchens. North Roskear Agents. soph Vivian. illiam Michell. illiam Thomas.

Tincroft Agents.
Peter Floyd.
Thomas Stainsby.
Thomas Lean.
Henry Hocken.
Richard Martin.

William Nancarrow.
Alex. Eudoy,
Joseph Eudey,
Wheal Agar Agents.

IMPROVEMENTS IN MACHINERY FOR THE MANUFACTURE OF WIRE ROPE OF CORDAGE, and IMPROVED MODES OF FITTING and USING the SAME.

A NDREW SMITH'S PATENT WIRE ROPE.—

The Undersigned respectfully inform the public that they have become SOLE MCENSEES of Mr. ANDREW SMITTH, for the MANUFACTURE and SALE of his AATENT WIRE ROPE, and that thay have REMOVED from the premisee (late Mr. imith's) at Millwall to HIGH-STREET, WAPPING, where orders will be executed with the utmost attention and dispatch.—Lightning Conductors, Signal Cord, and Sash Line, tways in stock.

Patent Wire Rope Works, 39, High-street, Wapping, London, May, 1849. NOTICE.—ANDREW SMITH'S PATENT FOR WIRE

NOTICE.—ANDREW SMITH'S PATERIAL

ROPE.—A letter, signed "George Binkes," formerly in our employ, having been
remerally circulated, containing much gross misrepresentation, and calculated to mislead the public, the Undersigned beg to state they having made definite ARRANGEMENTS with the PATENTEE for a LUICENSE to ANAUNEACTURE, under the patent
secured by him, bearing the date of May, 1849, they are fully enabled to EXECUTE and
secured by him, bearing the date of May, 1849, they are fully enabled to EXECUTE and
secured by him, bearing the date of May, 1849, they are fully enabled to EXECUTE

SEDERS with which they may be favoured. Having removed to more commodious promises, and availed themselves of improved machinery for the harufacture of the article,
they have only to assure those who may favour them with their victors, that the same
care and attention shall be bestowed which, they have reason to believe, him secured them
are a support.

Wanning. general support. stent Wire Rope Works, 39, High-street, Wapping

THE STEAM-ENGINE.—W. BROTHERTON & CO. beg to CALL the ATTENTION of ALL PARTIES EMPLOYING STEAM-FOWER to their PATENT PURIFIED OIL for the ECONOMICAL WORKING of the STEAM-ENGINE and other MACHINERY. brication over any other oil; and its properties are such as to greatly preserve the bearings of machinery in general. A trial will prove the fact.

W. BROTHERTON & CO.,

PATENT OIL PACTORY, HUNGERFORD WHARP, CHARING-CROSS, LONDON

PATENT IMPROVEMENTS IN CHRONOMETERS,
WATCHES AND CLOCKS.—F. J. DENT, 82, Strand, and 35, Cockspur-street,
watch and clock maker, BY APPOINTMENT, to the Queen and his Royal Highness
Prince Albert, begs to acquaint the public, that the maunfacture of his chronometers,
watches, and clocks, is secured by three separate patents, respectively granted in 1866
1840, 1842. Silver lever watches, jewelled in four holes, 6 gs. cach; in gold cases, 17 on
28 to 210 extra. Gold horizontal watches, with gold dials, from 8 gs. to 12 gs. cach,
DENT'S PATENT DIPLIEDOSCOPE,
or Meridian Instrument, is now ready for delivery.—Pamphilets containing a description
and directions for its use 1s. each, but to customers gratis.

THE SCIENCE OF WASHING.—"It is but common justice to state, that we have seen the mode invented by Mr. Twelvetrees, of Milmanstreet, Founding Hospital (noticed in our paper a short time back), described by very many of our country contemporaries, from experience, as bearing ontail Mr. Twelvetrees professes. The experiment is so cheap and ready, that it is worth any good house, which while to adopt it. "Despital Jerroid Receptoper, March 24.

THE SCIENCE OF WASHING, by HARPER TWELVETREES, bookseller, price 2s. 6d., to be had of Kent and Richards, London, and all booksellers.

L OANS ON DEBENTURES.—The CALEDONIAN RAIL-WAY COMPANY are prepared to RECEIVE TENDERS OF LOANS, in sums not test than 2500.—Applications to be made or addressed to this office. 128, George-street, Edihoungh, May 30, 1448.

B. RANKINE, Treasure-

WANTED,—ARTICLED PUPIL.—Mr. C. S. RICHARD— SON will take into his office a YOUNG MAN, for three years, as PUPIL; his course of studies will consist of House, Land, and Mining Surreying, Architectural and Engineering Drawing, in all its details, the Computation of Quantities, Valuation, Esti-mating, and the usual routine of the office.—Presulum modernia. Apply for terms at the office, No. 5, Whitefriars-street, Fleet-atreet.

TO BE SOLD (CREAP), a 40-horse HIGH-PRESSURE HORIZONTAL STEAM-ENGINE, quite new; cylinder 24 inches diameter, stroke feet, mounted upon a strong metal box frame.—Apply to Mr. Matthew Smith, Sylvester, Yorks, Sheffield, where the ongine may be seen.

TO MINE AGENTS AND OTHERS.—WANTED TO PURCHASE, a QUANTITY of YELLOW OTHER and UMBERS. Washed ample casks, containing not less than I ewt., delivered free to Mr. Lane, 80, Old Broadtreef, London, with lowest price delivered in London and Liverpool.

FOR SALE,—SHARES in that promising TIN MINE, called RIX HILL (East Crowndale), now making considerable monthly returns.

Apply to Mr. William Birdsey, 9, St. Michael's-alley, Cornhill.

PENNANT AND CRAIGWEN MINING COMPANY.—
Mr. LANE, 80, OLD BROAD-STREET, has instructions to SELL FORTY-FIVE
SHARES in the ABOVE MINES, at 15s. per share.

MINING OFFICES IN CORNWALL.—Messrs. JOHN T.
TEAGUE & CO., MINE SHAREBROKERS, No. 4, KING-STREET, TRUED,
have BUSINESS to do in the following MINES:—West Buller, South Frances, Condurrow, East Pool, East Wheal Rose, Stray Park, East Buller, Camborne Consols, West
Caradon, Wheal Mary (Redruth), West Seton, Comfort, Wheal Seton, Mineral Court, &c.
Truro, May 30, 1849.

MINING PROPERTY.—Mr. JAMES HERRON, MINE AGENT, 33, CLEMENTS-LANE, LOMBARD-STREET, has received instructions to DISPOSE of SHARES in FIRST CLASS MINES, paying regular dividenda, and yielding to the purchaser from 174 to 25 per cent. upon his outlay. He is also in a position to transact business in the following—viz.; Imperial Brazilian, Copiapo, St. John del Rey, Bolance, Altens, Royal Santiago, Australian, Holmbush, East Tamar, Treleighs, Devon Great Comole, East Wheal Rose, West Caradon, South Wh. Frances, Condurgow, East Pool, Lewis, and Bedford Mines.

MINING OFFICES, THREE KING'S COURT, LOMBARD STREET, LONDON.—Messrs, R. TREDINNICK & CO. beg to draw the attention of capitalists to the DEPRESSED MARKET VALUE of SHARES in ENGLISH and FOREIGN MINES, many of which pay dividends of from 20 to 30 per cent. per annum whilst those on the eve of so doing are selling at corresponding low prices.—Messrs. T. & Co. continue to DEAL in every description of MINING, RAILWAY, BANKING, INSURANCE, CANAL, and OTTER SHARES.—Statistical information afforded gratuitously, upon personal application.—MONEY ADVANCED upon the above securities.

JAMES LANE, MINING SHARE DEALER 80, OLD BROAD-STREET, LONDON.

NGLO-MEXICAN MINING ASSOCIATION, 5, Broad-

ENERAL MINING ASSOCIATION.—Notice is hereby given that an EXTRAORDINARY GENERAL MEETING of the proprietors in his company will be HELD at this office on Friday, the 15th day of June, 1849, at One Velock in the afternoon precisely, for the purpose of considering, and, if deemed expelient, of confirming, a resolution of the Extraordinary General Meeting of the proprietors reld on the 31st day of May last, for reducing the number of directors of this company os six, exclusive of the director appointed by the representatives of his late Royal Highness he Duke of York.

By order of the board of directors, J. B. FOODB, See?
Office of the General Mining Association, 52, Old Broad-street, London, June 1, 1849

MENDIP HILLS MINES COMPANY.—At a Special General Meeting, held at the offices of the company, 44, Finsbury-square, on Tuesday, the 22d day of May, 1849, ft was

Resolved,—That the reports and accounts now submitted be received, adopted, and entered in the company's cost and transfer books.

Resolved,—That the cordial thanks of this meeting be presented to the chairman, for his energetic and persevering industry in conducting the affairs of the company, and for his courtesy and attention in presiding over the business of the meeting.

MEXICAN AND SOUTH AMERICAN COMPANY, 10, New Broad-street Mews, May 28, 1849.—The FOURTEENTH ANNUAL GENERAL MEETING of the proprietors of shares in the Mexican and South American Company will be HELD at the office of the Anglo-Mexican Mint Company, No. 6, Broad-street-buildings, on Wednesday, the 18th day of June next, at One o'clock precisely.

At this meeting a director will be elected in the place of John Schneider, Eaq., who retires by rotation, but is eligible for re-election, and will be proposed accordingly.

H. W. SCHNEIDER, Managing Director.

OLD WHEAL PROSPER MINE.—Notice is hereby given that, for the present, NO SHARES CAN BE ALLOTTED, in consequence of ew gentlemen in London being in treaty for the entire mine, who propose to enlarge the applial and carry out the workings on a more extensive scale.

RHYMNEY IRON COMPANY.—The HALF-YEARLY
GENERAL MEETING of the proprietors of this company will be HELD at the
company's offices, 7, Laurence Pountney-hill, on Wednesday, the 20th Inst., at One o'clock

By older of the board,
7, Laurence Pountney-hill, June 1, 1849.

T. E. SCUDAMORE, Secretary

T. JOHN DEL REY MINING COMPANY.—The NINE-TEENTH ANNUAL GENERAL MEETING of the proprietors of the St. John del Rey Mining Company will be HELD at the company's office, 8, Tokenhouse-yard, on Friday, the 8th of June, at Two Oclock precisely. At this meeting one director—viz., J. D. Powles, Esq., will go out by rotation, but is eligible to be re-elected. 8, Tokenhouse-yard, May 26, 1849. (Signed) W. BOUTH, Secretary,

JAMES BOYDELL, LAND, MINE, AND MACHINERY VALUER, AND AGENT.

No. 54, THERADNEEDLE-STREET, LONDON,

APATENT RIGHT for BUILDING VESSELS with IRON, on a principle which combines increased strength with greater economy of mannfacture.

Also, ONE for the CONSTRUCTION of IRON ROOFS, on a like principle. A specimen of this may be seen as a roof covering one of the retort houses of the Birmingham and Staffordshire Gas Company, by permission of Mr. Clift, the engineer, at the works.

Also, ONE for IRON JOISTS and RAFTERS, and for a plan of joining large plates and sheets of iron.

sheets of iron.

Also, ONE for the AMALGAMATION of STEEL and IRON—in the progress of the nanufacture of the latter, by which a great saving may be effected in the cost of making

manufacture of the latter, by which a great saving may be effected in the cost of manufacture of the latter, by which a great saving may be effected in the cost of manufacture of the River Dee, complete, with fixtures, machinery and tools, in working order, and ready for any parties to embark at once on building first-class iron assun-reassis, and marine and locomotive engines.

The above will be found workly the attention of any parties dealting to have money in a profitable business, as they will be disposed of upon terms which will engage an unusual return to the purchasers of them.

Also, SOME COAL and IRONSTONE MINES, FREESTONE QUARRY, and a large FREEROLD ESTATE.

Also, STEAM-ENGINES and MACHINERY, of all descriptions, and which he is encabled to offer at very moderate prices.

Also, SHARES in a well-known valuable SLATE QUARRY, in CARNARVONSHIRE.

Also, SHARES in a well-known valuable SLATE QUARRY, in CARNARVONSHIRE.

Also, SHARES in or the whole of a GAS-WORK, which supplies exclinively a populous town in Shropshire, and which can be greatly extended.

Particulars of the above may be had, upon application; at 54, Threadneedle-street.

TO ENGINEERS, BUILDERS, AND ARCHITECTS.

JAMES BOYDELL, 54, THREADMEKDLE-STREET, baving been avery large manu-cturer of machinery and treegular shaped fron, and having accomplished the rolling of one descriptions of the latter, thought by many to have been impracticable, will be happy o ASSET any ENGINEERS, SHIPBUILDERS, and ABCHITECTS, in the planning of the details of what IKONWORK they may have occasion for, or bringing to perfection my invention in machinery, as well as precuring such materials for the purpose as they

The Dublic Morks of England.

No. L.-LIGHTHOUSES.

Before the invention of the mariner's compass, beacons and coast signals were indispensable for the safety of the mariner. The vessels whose safe voyaging depended upon their never losing sight of land, trusted to the natural and artificial signs which enabled the pilot to determine his position; and this object was accomplished in many instances by beacon lights, which served for guides during the darkness of night. Around the shores of the Mediterraneous we have reason to believe that these lights were thickly studied—the Colosus of Rhodes and the Pharos of Alexandria, being the most celebratad. Both of these beacons are supposed to have been erected about 300 years before the Christian era, and to have endured until long after its commencement. Next to these in point of time was a light-tower near Corunna, on the Spanish coast, built, it is said, to said the Irish navigators in their voyages to Spain—this, at least, is the supposition of Mr. Moore, in his History of Ireland—and which Humboldt states to be evidently an erection of the Roman period. The light in all these beacons was derived solely from the fame of wood or pitch burnt in open braziers, and visible comparatively for small distances. Turning to the lighthouses of modern days, we find that the light-tower of Cordovan, in the Bay of Bissay, is alike the first in point of time, the chief in height and range, and the example for all the improvements that have been successively made in the production and transmission of the warning rays of light to perplexed nariners. This tower was begun by Louis de Foix, in the return of Henry IV. It is situated at the mouth of the Garonne, about two leagues from Bordesaux, and serves as a direction to all the coast navigation of the Bay of Biocay, as well as to the large think in the return of the coartonne, about two leagues from Bordesaux, and serves as a direction to all the coast navigation of the Bay of Biocay, as well as to the large his he light from your by seen in a direction for 35 miles in clear weather

deligative lange, seating upon lange of an improved and more powerial construction. The same of this and similar beacons upon that coust has, been enermous. In the are of the and similar beacons upon that coust has, been enermous. In the are of the count of the county of the county

on amp is quite shadow at 18 miles distance, might be advantageously introduced as an assistant in hary weather. At present the obscurity of fogs is compensated as far as possible by geogra, belie, and gans, which are rang and fired at intervals from the beacon towers.

As the lighthouse stations multiplied, it became necessary to contrive some distinguishing mark by which the pilot might determine the one he sought. Various forms and changes of the light were, therefore, introduced, accomplishing mine varieties, viz., the fixed white, revolving white, revolving red and white, revolving red and two whites, revolving white and two reds, fiashing, intermittent, double fixed white, only the revolving white. As the red says penetrate little more than half as far as the white, no light must consist of red alone, especially as even write will look red through aday haze. The other coiousts are less penetrating still, and therefore wholly unit. According to the rule laid down by Mr. Stevenson, no two light-houses within one hundred miles of one another should have the same characteristics. The catastrophe of the Great Britain steamer is a sufficient evidence of the necessity of observing this rule, as it sare solely from a misapproblemsion of the light on the Call of Man. Now that lighthouses are becoming so thickly multiplied, even the nine variations we have mentioned become inaufficient; and efforts are making to invent means for making numeral figures visible at great distances when 12 miles.

inemiary committee was appointed in 1854, chiefly by the perseverance of Mr. avestigate the condition and administration of the British lighthouses, and publication of the properties the result of their labours. As usual, great mismanage-proved to exist, combined with an uncertainty and inconsistency in the charges write upon shopping, which must have considerable injury to correct the worst results, however, were found to cake from the system of private mit which still existed, either under old grants from the Crown, or in writine of inconsiderate leases by the Trinity Board. The private owners in all case

The high-home has since passed into the keeping of the commissioners of northern untrapad in the dulle, tegether with the outle of the control of the control of the dulle, tegether with the outle of the control of the control of the dulle, tegether with the outle of the control of the dulle, tegether with the outle of the control of

France, in 1845, possessed 153 lighthouses—77 in the Channel, 47 on the west coast, 24 in the Mediterranean, including Algiers, and 5 in Corsica. No less than 93 of these were on the lens or dioptric principle. By an ordinance of the Emperor, in 1806, the lighthouses were placed under the control of the Minister of Travaux Publics, and defrayed out of the Exchequer. The cost was about 110% annually per light.

America, at the same date, possessed 372 lights of various descriptions on her assabard. For the cost of them 93,334, was charged upon the public service of the year, amounting to a little ever 300% for each establishment.—Daily Nets.

No. II.—Canals—will appear in next week's Mining Journal.

No. II.—Canals—will appear in next week's Mining Journal.

The Electric Light.—On Wednesday evening Mr. Staite again exhibited to the public generally the unrivalled brilliance of the new light. His apparatus for this occasion was carried to the summit of one of the piers of Hungerford Suspension-bridge, that, namely, on the Middlesex shore, and thence he threw the radiance of his magnificent discovery now along the bridge to the multitudes that watched from the Surrey shore the effects of the illumination, now upon the buildings which form Hungerford-market, and now upon the water front of Somerset House, and upon Waterloo-bridge, and the steamers passing up the river; but wheresoever it lighted, the beam dazzled the beholder, whilst it discovered to its controllers the minute characteristics both of dress and architecture. The power of the light is well known; but what is interesting to all who desire the progress of scientific discovery, and the application of it to the uses of society is, that Mr. Staite has been most successful in effecting and maintaining the relative adjustment of the two points, or opposite poles, which occasion the luminosity. This has been one grand desideratum, which, we believe, he has attained through means of the electric current itself, so that it is self-acting, and by apparatus even more economical of mechanic contrivance than we had the opportunity of witnessing. His efforts are now turned towards making his discovery economically applicable, and they have hitherto been most successful. It may be interesting to those who saw the brilliance of his light on Wednesday night, collected, as it was, into one focus by a reflector throw behind, to know that the power of it is estimated at 750 candles. His apparatus constructed for domestic use gives a light equal to from 8 to 40 candles, with this singular advantage, that the blaze can be produced and retained under an air-tight glass shade, so as to prevent the possibility of ignition.

New Material Pop Pennying Types.—On Saturday la

New Maregal for Priving Types.—On Saturday last, a new invention, which is called the approtype machine, was submitted for inspection at a meeting of the Boyal Society, and elicated the highest approbation of many of the most eminent members of that body; it is also now in course of private exhibition in Bartlett's buildings, Holborn, with the view of bringing it under the notice of practical men, in order to promote its introduction into actual operation. The object of this invention is, by means of self-acting machinery, to manufacture printing type not liable to the fragility, softness, and rapid deterioration—the much-complained of defects of the type at present in use. These defects arise from the use of an alloy fastile at a low temperature—the metal possessed of that property being destitute of the degree of hardness requisite for producing those numberless impressions of the "broad sheet" which have now become one of the prime wants of modern civilisation. This desideratum is secured by the use of hard metals—such as zinc, coppor, and evon iron; and, instead of fusing the metal, and pouring it into moulds, to give it the required form, the type is manufactured by a mechanical operation at ordinary temperatures, chiefly by means of powerful pressure, and the use of steel dies. The exact durability of the article thus manufactured hay yet to be ascertained by experiment; but the superiority of copper, even in its ordinary and uncompressed state, is estimated by practical persons to exceed the material now commonly used in the proportion of 100 to 1. This invention, the credit of which is due to a Frenchman, named M. Petit, who has laboured unremittingly for the last seven years to bring it to its present degree of maturity, is regarded by many as destined ultimately to constitute quite a new era in the art of typography.

Transactions of Scientific Bodies.

	. Aslatic - 6, New Burlington street		
MONDAT	Entomological 17, Old Bond-street	8	P.M.
	British Architects-16, Grosvenor-street	8	P.M.
	Chemical-Society of Arts, Adelphi	8	P.M.
THESDAY	Linnman-Soho-square	8	P.M.
	Horticultural-21, Regent-street	1	P.M.
	Civil Engineers -25, Great George-arcet	8	P.M.
THURSDAY			
COLUMN ACTIONS	Zoological-11, Hanover-square		
FRIDAY	Royal Institution - Albemarle-street		
	Astronomical Somerset-house	3	P.M.
TRIPERSON	Philological London Library, 12, St. James's-square		
SATURDAY	Royal Botanic Inner Circle, Regent's Park	1	P.M.

ROYAL INSTITUTION.

SOCIETY OF ARTS.

On Wednesday evening, a paper was read at the society's rooms illustrating an electric telegraph, which has been invented by Mr. E. W. Siemens, of Berlin, and is now in successful and constant operation on numerous lines of communication in Germany. Mr. C. W. Sienens, brother to the inventor of the instrument, was present, and fully explained its working; two of three diagrams were exhibited to demonstrate che internal machinery; and working models of this beautiful invention were present, and were referred to in explanation of its operations. The galvanic current is made to traverse a coil of which is placed a steel bar, vibrating upon a fixed pivot. The oscillations of the bar, when actuated by the moving force of magnetism generated by the circulation around the magnet of the galvanic current, are made to act upon a cogged wheel, which is liberated tooth by tooth. The resulting movement is adapted to the peculiar combination of the instrument by means generally similar to these employed in other systems. There are, however, some new arrangements introduced in this, which impart a property to the instrument peculiar to itself, or at any rate distinguishing it from many. In all the electro-magnetic telegraphs hitherto known, the break and restoration of the current, which causes the telegraph to work, is effected by means of movement of hands, or clockwork; the speed wherewith these successive breaks and restorations of the current follow one another, and also the duration of each current, is independent of the amount of the working power, and of the resistance of the apparatus. In a mechanical point of view, all former telegraphs may be compared to the first steam-engines, in which the steam-valves were worked by hand, and not by the machine itself. The principal feature in this invention consists in breaking and restoring the galvanic current by means of the electro-magnet itself, at the moment when the revolution, or movement, of the armature to the one or the other side is at an end. Mr. Siemens' telegraph, therefore, is a self-acting machine, the speed of which is dependent on the summan of the current be one than the other with the self-acting machine, the and is now in successful and constant operation on numerous lines of commu-nication in Germany. Mr. C. W. Siemens, brother to the inventor of the in-

a botton which is fixed in his tolograph, stay the working of each of the instruments for as long a period as he may require.

The advantages obtained by Mr. Siemens's arrangement are, the harmonious working of the instrument is much more secure than in those telegraphs where the current is broken, and restored by hand or mechanism, because the speed of the movement is dependent upon the current; the working of the instrument is readily understood, and requires no skill or precautions; losses of electricity, caused by bad insulation of the line wire, may be very considerable, without disadvantage to the working of the instruments, for the following reason—the electric current is broken in each instrument, for the following reason—the electric current is broken in each instrument independently, and just in that moment when the attraction of the armature is completed, the return stroke of which is entirely secure, however deficient the insulation may be. These instruments can be so constructed, as to work with any required speed, and with any reasonable amount of battery power, by altering the length of the stroke of the arm, the magnets, and the moving masses. One of the many advantages of the telegraph is, that currents of only very short duration pass through the circuit stream, producing a small persion of that magnetim which would result from a longer duration of the same current giving separate signals, which require greater intensity of current, merely by excluding the instruments from the circuit. These separate signals may be used, either to release clock-work, for ringing bells, in any of the railway stations, or to connect other branch telegraph.

A telegraph on this psinciple, between Gross Beersm and Berlin, has been in successful operation for two years and a half; another, since then, has been

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completed between Frankfort-on-the-Maine and Berlin, a distance of 350 English miles. A proof of its success is, that the debates of the German Parliament at Frankfort are published in Berlin on the following morning. Another line, from Berlin to Cologne, viá Magdeburg and Hanover, is opened as far as Magdeburg. One from Berlin to Vienna, and several others, are either commenced or in contemplation.

Mr. Siemens has, likewise, obtained from the Prussian electric commission a certificate, that during the six months' trial of his tolegraph between Potadam and Berlin, which line is continually engaged in transmitting Government dispatches, no irregularity had occurred. Mr. Siemens, in the erection of his tolegraph, has discovered that wire, insulated in gutta percha, and laid in the ground, is perfectly secure against any external and atmospheric causes, and its work has never been impeded, or in the slightest degree affected; but wire, suspended in the air, although coated with gutta percha, was not secure against atmospheric influences. A pair of Mr. Siemens's instruments have been deposited at the offices of the General Telegraph Company, John-street, Adelphi, and can be inspected by parties interested in the progress of the electric telegraph. After Mr. Siemens had read his paper, a gentleman handed to the chairman and old work, entitled, the Universal Library, or Compendism of Science, published 1712, in which was an account of the possibility of a proposed telegraphic communication between London and Vienna, by means of the magnet and the electric fluid alone. We may mention, that the fact of the transmission of the electric current to great distances, was proved by Dr. Watson and friends, on the 14th July, 1747. They conveyed the shock across the Thames at Westminister, transmitting it at a curcuit of four miles—two of water and two of dry ground. We may also refer to an interesting chronological history of the electric telegraph, which appeared in the Mining Journal of July 3, 1847.

Mr. A. Dunn read a pap

ar. A. Dunn read a paper, and accompanied it by experiments, on the application of electricity to prevent the explosion of steam-engine boilers—the plication of electricity to prevent the explosion of steam-engine bollers—the tenor of which, however, was the same as the lecture delivered by him at the City of London Literary and Scientific Institution, and reported in the Mining Journal of the 12th of May. The following data of experiments, with regard to the spherical nature of water, were adduced:—

Experiments on the Spherical State of Water in a Mercury Bath.

Polished in dish, the water burst into vapour at about 350° Fahr., using hot water.—[Mole. The water remained a considerable time in the spherical state, after the lamp was withdrawn from the bath.]—This was repeated several times with the same result, and, in the end, the thermometer was broken; but the actual temperature was taken during the experiment.

The thanks of the society were voted to the authors of both papers, and the

Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK.

MEETINGS DURING THE ENSUING WEEK.

Y. ... Lianelly Railway and Dock Company—offices, at One.
Grand Union Canal Company—offices, at Eleven.
Albion Plate Glass Company—offices, at Tweive.
Basingstoke Canal Navigation Company—fray's Inn Coffee-house, Two.
National Disinfecting and Dry Manure Co.—King's Head, Poulitry, Two.
West Flanders Railway—London Tavern, at One.
Grand Junction Canal Company—offices, at Tweive.
Professional Life Assurance Company—offices, at Tweive for One.
Dacca Sugar Company—offices, at Tweive,
Bray ... Regent's Canal Company—offices, at One.
Gravesend and Rochester Railway and Canal Company—offices, at One.
Guardian Assurance Company—offices, at Eleven.
British Commercial Life Insurance Company—offices, at Tweive.
Offices of Company—frees, at One.
Waterloo Bridge Company—London Tavern, at Tweive.
Gravetoo Bridge Company—Teremason's Tavern, at Tweive.
Equitable Assurance Company—offices, at Eleven.
Hammersmith Bridge Company—Freemason's Tavern, at Tweive.
London and Birmingham Railway—Easton Station, at Two.
Church of England Assurance Company—offices, at Tweive.
the meetings of Mining Companies are inserted among the Mining Intelligence.]

[The meetings of Mining Companies are inserted among the Mining Intelle

PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY The seventeenth half-yearly meeting of this company, which was incorporated by Royal Charter on the 31st December, 1840, was held at the London

The seventeenth half-yearly meeting of this company, which was incorporated by Royal Charter on the 31st December, 1840, was held at the London Tavern, on Thursday, the 31st May.

Mr. J. MATHESON, M.F., the new chairman of the company, having been called upon to preside, the bon. gentleman returned thanks to the shareholders for the honour they had conferred upon him in placing him in the chair. That was the first occasion in which he had had the honour to appear before them as chairman, and he, therefore, claimed the indulgence of the shareholders, should any difficulty arise in the course of the business from his want of experience, through not having before attended their meetings. (Hear, hear.) He could assure the proprietors that he esteemed it a very high honour to be connected, as he had recently become, with the direction of a company which had hitherto stood in a high position for the excellence which had distinguished the management of their concerns, for the satisfactory manner in which they had performed their duties to the public, and, above all, for the inestimable benefits conferred on the nation at large, particularly in having accelerated the communication with that magnificent empire which England had established in the East—(cheers)—which might be said to have been brought to their very doors, instead of being separated from them, as it had hitherto been, by a long voyage. (Hear, hear.) He believed it was in the power of that company still further to accelerate the communication with the Indian empire, if they were permitted to carry out the necessary arrangements by the Government and the East India Company. (Hear, hear.) He was sure that he might say for his brother directors, as he would say for hismelf, that all their energies should be devoted to promote that object whenever a suitable opportunity occurred. (Cheers.) He would not then detain them longer, but would call upon the secretary to read the notice convening the meeting.

Mr. Howeell then read the notice convening the meeting, wh

The Deed of Settlement of the company prescribes that the half-yearly meeting of proprietors shall be convened, "for the sole purpose of declaring a dividend and receiving the report of the directors," the statement of accounts being directed to be furnished at result of the company's operations is such as to warrant their recommending a doclaration of the usual dividend of 4 per cent. for the half-year ending 31st March hast.

INSURANCE FUND.—The directors are also enabled to report, that no cannulty from sea risk has happened to your fleet during the last 12 months—a circumstance which, combined with the termination of many of the policies, and the consequent discontinuance of the payment of premiums, has proportionately increased this fund.

TARNET THROGER EXPIT.—It was stated to you, in the last annual report, that the

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TRANSIT THROUGH EGYPT.—It was stated to you, in the last annual report, that the present Vicercy of Egypt, Abbas Pacha, had intimated a willingness to improve the transit arrangements for the overland route through that country. The directors, considering that it would be of great importance to the interests of this company, and even in a national point of view, that a good understanding with the new Vicercy should be established and maintained, determined to send a mission to Egypt, to present to his Highness an address of congratulation on his accession to the government of that country. established and maintained, determined to send a mission to Egypt, to present to his Highness an address of congratulation on his accession to the government of that country, and also to press upon his attention the further improvement of the transit. Your deputy-chairman, Sir John Firle, having kindly consented to proceed to Egypt for this object, an address of congratulation was prepared, and the necessary instructions were trunslated to him. He has very recently returned from Egypt, and it is with much gratification that the directors have proper the entire success of his mission. His Highness the Pacha the directors have been provided in the directors have been expense consequent thereupon would be of secondary consideration to the perfecting the transit; and his Highness was moreover pleased to declare, that the increased expense consequent thereupon would be of secondary consideration to the perfecting the transit through his country. His Highness has authorised the directors to order for his account one additional steam-vessel, for the Mille, to be fitted with all the improved accommodation which experience suggests. Also two paddle-wheel steamers for the Mahmoudieh Casal. These casal boats will be devoted to the conveyance of passengers only, and the baggage will be conveyed in future by track boats. These two steamers will be a most important addition and improvement to the casal transit, which has hitherto been considered the most inconvenient part of the Journey, and they will accordingly be fitted in the most commodious manner, and sent out with the numost dispatch. A small steamer, now building at Boulace, will shortly be placed at Sues, for the embarkstion and landing of passengers and baggage from the India steamers, which will be productive of great comfort and convenience. A considerable improvement has already been effected in the landing and embarkstion of passengers and baggage at Alexandria, and commodions store-houses have also been creced there, and at the Mahmoudieh Canal. The occasional others of much importance have already been recently effected. The route of \$2 English miles, between Cafro and Suez, has been partly macadamized, and is divided into 16 stations, at each of which horses can now be changed in from \$6 to 10 minutes, whereas formerly this operation usually occupied from 20 to 30 minutes. The whole distance, from the Nile (say Cafro) to the Red Sea, can now be performed, in comfortable vehicles, in from 16 to 18 hours, of which about 16 hours are occupied in actual travelling on the read, and the remaining portion in the rest taken at meals. &c., and in changing horses. The present superintendent of transit, flereden Bey, recently appointed by the Pacha, is a very active and intelligent genileman, acquainted with the requirements of European habits, and anxious to adopt every practical improvement; as an instance of which, the contract for the provisioning arrangements on the Nile and Desert has been entrusted by the Transit Administration to the management of an Englishman, who intended to employ English servants throughout the line, and the directors are informed that considerable improvements have already been made.

Syman Communications with Australia—In their last annual report the directors stated the basis of a proposal which, in answer to a public advertisement inviting tenders, they had submitted to Ten Majesty Government for establishing a monthly postal communication by steam-vessels between Singapore and Sydney. It appears that parties who were occupied in endeavouring to form a company, also submitted proposals to the Government for the same object. No decision as to the establishment of the contemplated communication has yet been made known by the Government, and the directors have been informed that the parties alluded to have withdrawn their proposal, and have abandoned any further attempts to establish the projected company.

Contract for Convenies the India Abs China Malia Between Southampton And

Contract for Convering the India and China Malls between Southampton and Alexandria.—The proprietors were informed, by circular, of the renewal of this contract, on the terms proposed by the directors to the Government, in answer to the advertisement, and after the decision of the Government had been protracted by tenders made by the same parties who have been alluded to in reference to the Australian communication, but who ultimately failed to satisfy the Government as to their ability to carry into effect their proposals.

tion, but who ultimately failed to satisfy the Government as to their ability to carry into effect their proposals.

Parlamentary Committee to Inquire into the Contract Packet Service.—You will have observed, by the public Journals, that a select committee of the House of Commons has been appointed for the above object, and is now sitting; also that, one of your managing directors has been nominated a member of the committee. The directors allude to the circumstance, at present, merely for the purpose of expressing their satisfaction that such an inquiry has been instituted, feeling, as they do, confident, that as far as the interests of this company are concerned, it will have a beneficial tendency, by eliciting facts connected with the origin and progress of the company, and its employment in the contract mall service, which cannot fail to show the important national benefits which your enterprise has been the means of realising, and its consequent claim to public support Forther Improvement of the conveyance of the branch of the India mall which departed from Southampton on the 3d of the month, was noticed in the last annual report. The strong feeling of dissatisfaction which this disarrangement of the communication occasioned, particularly at the Bombay Presidency, as manifested by the various memortals sent from that quarter, together with the knowledge by the directors that this company possessed the means of not only remedying the evil complained of, but also of effecting an important improvement, and a very large reduction in the expense of the Bombay branch of the India mail communication, induced them to submit a proposal to the Government to the following effect—viz., to re-establish the communication of the 3d of the month between Southampton and Alexandria. The proposed additional and improved communication between Suthampton and Alexandria: to accelerate and otherwise improve the communication to the public, as compared with the cost of the existing means of communication to the public advantages

Fall to receive that attention to which its merits entitle it.

ESTABLISHMENT OF A BRANCH LINE OF STEAM COMMUNICATION RETWEEN HONG KONG, MACAO, &C., AND CANTON.—The company's new steamer, Canton, has commenced running on this line, and has been found well adapted in every respect for the service. Her earnings to the date of last advices (31st March) had been renumerative, and she had been found to be an important auxiliary for increasing the traffic of the main line. The merchants of Hong Kong were forming an arrangement with the company's agent, for availing themselves of her services as a branch postal communication with Canton, Macao, &c., and being efficiently armed for defence against the piratical craft with which the Canton river is infested, she was found to present superior security as a means of conveyance.

ELECTION OF AN ADDITIONAL DIRECTOR.—The directors considering it expedient to add one member to their present number, have apprised you by circular of that intention; and accordingly, a special meeting will be held on the conclusion of the business of this half-yearly meeting, for the purpose of electing a qualified proprietor to that office.

The directors are not aware of any other points to which, on this occasion, it is necess-

The directors are not aware of any other points to which, on this occasion, it is necessary for them to advert, and have, therefore, in conclusion, only to state that the company's affairs continue to progress satisfactorily, and they feel assured that the statement of accounts which it will be their duty to submit to you at the next annual meeting, will be such as to merit your entire confidence in the soundness of the undertaking, and in the efficiency of its management.

of accounts which it will be their duty to submit to you at the next annual meeeling, will be such as to merit your entire confidence in the soundness of the undertaking, and in the efficiency of its management.

The Chairman stated that, the report having been read, he should be happy to hear any remarks relative to it from the proprietors, or to answer any questions which they might wish to put.

A PROPIETOR wished to put a question to the chair, which he felt sure would be readily answered. During the past year they had received a bonus from their property; and, as they had heard lately of companies which paid their dividends otherwise than from profits, he wished to ask whether the dividend now proposed was to be paid whelly out of profits, or whether there was to be any entrenhement on the reserve?

—The Chairman replied, that the dividend would be paid, as usual, out of the clear realised profits of the company. (Cheers.)

Dr. Bratte wished to know whether the dividend would be paid, as hitherto, clear of income tax—no notice of that fact being contained in the report.—The Chairman replied, that the dividend would be paid, as hitherto, clear of income tax—no notice of that fact being contained in the report.—The Chairman replied, that the dividend would be paid as cleared would be paid as hitherto, clear of income tax—no notice of that fact being contained in the report.—The Chairman replied, that the dividend would be paid as cleared to the company of the received, adopted, and circulated amongst the proprietors. He felt assured that the resolution would be unanimously carried, and congratulated the proprietors on the admirable manner in which the necessary operations of the company had been conducted during the last six months. (Cheers.)

Mr. Came rose to second the motion. In doing so, he could only express the gratification he folt at his good fortune in being in town to take part in the proceedings of the company. It had never before been his good fortune to be in London at the time when their meetin

connected with India, which had always been considered by a large body of the proprietary as a matter of great importance. He looked forward with pleasure, therefore, to the election of Mr. Hadow.

The Charlman did not wish to interrupt the honourable proprietor; but, as a special meeting was to be held at the close of the regular business, for the purpose of electing an additional director, he thought his observations would come with greater propriety then.

Mr. Richardson having bowed to the intimation of the chairman, the motion was put and unanimously carried.

Captain Maxwell moved the declaration of a dividend of 4 per cent. for the half-year, clear of income tax, payable on and after the 22d inst.

Mr. C. Salth sadd, that from the report it would be seen that they were under deep obligations to their deputy chairman, Sir John Pirie, which he was sure they would be giad to embody in a resolution. (Hear, hear.) The company had obtained considerable facilities for the transit of their passengers and merchandise through Egypt, which they must all feel to be of the utmost importance. It was to the great exertion, peculiar tact, and admirable management of their deputy chairman that they were indebted for those advantages; and he, therefore, begged to move that the thanks of the proprietary are due, and are hereby given to Sir John Pirie, for the valuable services rendered by him to this company by his mission to Egypt; and that the directors are hereby authorised to present, on behalf of the proprietors, some desirable and suitable testimonial to that gentlemm, as an acknowledgment for those services. (Ceers.)

Mr. Edwards had great pleasure in seconding the motion. Sir John had not only done them great service by the way in which he had attended to the interests of the company on a public duty, and most credibly had he performed it. (Cheers.) of course, the company on a public duty, and most credibly had he performed it. (Cheers.) of the company on a public duty, and most credibly had he performed it. (Cheer

other business.

Mr. Dz Salis believed that the proprietors would generally approve of the resolution, and that was the reason which had induced him to bring it forward.

Mr. Anderson, M.P. (a director), stated that as the only objection to the resolution appeared to be a legal one, perhaps the solicitor would state his opinion respecting it.

Mr. Browning (the solicitor) stated, that he had no doubt that a question such as that before the meeting could be entertained on the motion of an individual proprietor. The motion immediately arose from what was contained in the report, and being brought for

before the meeting could be entertained on the motion of an individual proprietor. The motion immediately arose from what was contained in the report, and being brought forward, as he understood it, quite 'ndependent of the board might, in his opinion, be fairly considered. (Hear, hear.)

Mr. De Satta wished it to be distinctly understood that the resolution had not originated with the board—(hear, hear)—but in a conversation which had taken place among a few proprietors just pror to the meeting, on reading the report of the directors. (Hear.)

He thought that the shareholders would generally consider that he was fully borne out in proposing the resolution by the importance of the services rendered to the company by Sir John. (Hear, hear.)

Mr. Mosaus fully concurred with the hon. proprietor that the motion was one which would meet with the approbation of every shareholder—(hear)—but he doubted the legality of its being put at that meeting. If it was necessary to hold a special meeting to elect a new director, surely they could not past his resolution without holding a special meeting for that purpose.

Mr. Hadow suggested that the vote of thanks to Sir John, being purely of a complimentary nature, might be at once passed; but that the presentation of a testimonial being a question which touched their capital, the hon. proprietor should give notice of the motion was so amended, as to make at a meeting. He, therefore, thought that if the motion was so amended, as to make at a meeting. He, the open the consider, prior to the uset meeting, what would be admissible testimonial to present to Sir John, it would meet with general approbation. (Hear, hear)—Mr. De Satzs stated that he would have no objection to adopt the suggestion, as handed up to the chairman, appeared to him merely to propose oat of the chair and a continuous experience of an opinion that something further should be done in acknowledgment of the long gentleman's services. (Hear, hear)—and that the remaining portion was not the long gentleman's servic

Piric, that vote of thanks would be most gratifying to him. He was sure that it was not proposed to give, nor Sir John would not wish to receive, a pecuniary reward, though some honorary testimonial of his important services might be gratifying to him.

After some further conversation, the vote of thanks was carried by acclamation, with the provise that the directors should consider on a suitable testimonial to be presented to Sir John Piris, and report their opinion on the subject, at the annual meeting of the proprietors.—Sir John Piris, and report their opinion on the subject, at the annual meeting of the proprietors.—Sir John Piris, and report their opinion on the subject, at the annual meeting of the proprietors.—Sir John Piris, and report their opinion on the subject, at the annual meeting of the proprietors.—Sir John Piris, and report their opinion on the subject, at the annual meeting of the proprietors with which the resolution had been passed. He was perfectly of opinion that any testimonial which it might be thought proper to present to him, ought to be left to the proprietors to determine upon. (Hear, hear.) At the same time, he wished it to be understood that he desired nothing more than their thanks, and having received that he was perfectly satisfied. (Cheers.)

The regular business having been terminated, a special meeting was held, for the propose of electing a director, in addition to the present board. The notice convening the meeting having been read, the Caaranax stated, that only one candidate, Mr. Hadow, had offered himself for the vacant office.

General McLeon had great pleasure in proposing the election of Mr. Patrick Douglas Hadow as a member of the direction. (Cheers.)

General Barcas begged to second the motion. He had been in the frequent habit of looking into the office of the directorial making himself master of his duties as a proprietor. His acquantance of Mr. Hadow was confined to meeting him in that house, though he knew and highly respected his father, but he was sure that t

PE

ENINSULAR AND ORIENTAL STEAM NAVIGATION C	OMPANY'S FLEET
SURZ AND CALCUTTA STATION.	1,700.0
Bentinck Tons 1800	. 520 Horse-nouser.
Precursor 1600	
Haddington 1500	
Oriental	E00
	. 300 11
BOMBAY AND CHINA STATION.	
Pekin	
Achilles , 1000	
Malta , 1225	
Poltinger , 1400	. 450 ,,
Braganza 800	
Lady Mary Wood , 650	. 260 .,
CANTON RIVER STATION.	
Canton	. 150
SOUTHAMPTON AND ALEXANDRIA STATION	
Hindostan Tons 1800	
Indus ,, 1400	
. Ripon ,, 1500	. 450 ,,
CONSTANTINOPLE AND BLACK SEA STATION	
Sultan Tons 1100	
Euxine 1100	
Tagus 900	
Erin	000
	. 280 #
PENINSULAR STATION.	
Montrose 7ons 650	
Iberia , 600	
Pacha , 600	. 210
Jupiter 600	. 260
Madrid , 500	. 160

SOLICITORS' AND GENERAL LIFE ASSURANCE SOCIETY.

The third annual general meeting of the shareholders of this society was neld at the Gray's Inn Coffee House, Holborn, on Wednesday, the 30th inst. It was proposed by Mr. DONNE, and seconded by Mr. MORRIS, that JOHN THOMAS CHURCH, Esq., do take the chair, which, having been done, The SECRETARY (Mr. Gill) read the advertisement, and also the minutes of

the former meeting, which were confirmed. He then read the following

The SECRETARY (Mr. Gill) read the advertisement, and also the minutes of the former meeting, which were confirmed. He then read the following of the former meeting, which were confirmed. He then read the following of the shareholders a statement of the business transacted during the past year, cannot but congratulate them on the very satisfactory position which the society has attained in this the third year of its operations. Your directors beg, therefore, in as concise a manner as possible, to state the facts which warrant them in such congratulations. During the past year the society has received 235 proposals for assurances, to the extent of 118,514.0 a. 8d., and has issued 205 policies, covering assurances to the amount of 95,0694. Ia. 8d. producing an annual premium of 87974. Iss. 10d.

It will be seen, on reference to your director's report of the 36th of May last, that the society had then issued 391 policies, for sums amounting to 205,9254. 4s., at an annual premium of 68924. 6s. 6d. It, therefore, follows that at this time the society has issued 605 policies, amounting to 394,9944, 5s. 8d., and that the annual premium on anch policies amounted to 94806. 5s. 4d. In order, however, to show the number of policies actually in existence, the amount assured thereby, and the annual premium or anch policies, and that the annual premium in respect of such policies amounted to 12376. 3s. Deducting, then, the number, the amount, and the premiums of these policies, it will be apparent that 538 policies for assurances, to the amount of 259,4497. 9s. 8d., are in existence, and that the annual premium payable in respect of such policies is 32432. No. 3d. Your directors are happy in announcing that not more than two deaths have happened during the past year among the assured, and that the chains arising thereform do not involve a larger sum than 8006.

Your directors would remark that the total claims made on the society, since the commencement, have amounted to 15987. only, while the premiums received on the lapsed

and Richard Nation, Esq., of Orchard-street, Portman-square, and Wm. Roberts Hartis, Esq., of Essex-street, Strand, offer themselves also as auditors for the current year.

The CHAIRMAN said, he had to announce that the attendancies of the directors from the date of the last meeting comprised 52 board meetings, in addition to all the special boards, making an aggregate number of 417 attendancies, the average attendance at each board being seven directors. They had heard the report just read by the secretary, which he thought was a matter of congratulation to them all, for they had certainly improved their condition since the last meeting. He hoped that every member of the society would do the best he could to procure them more business, by which, of course, they would realise more advantage to themselves. If the report now read should meet with the approbation of the meeting, he would move that it be adopted.—Mr. Hanns seconded the motion.

Mr. Euchart was surprised to hear it stated that the society was progressing. So far from there being an improvement in their condition, there was a falling off in their receipts. What was more important was, that whilst there was a falling off in their receipts, there was an increase in the expenditure of the society. This led him to conclude that their affairs were not conducted with that economy which was dealrable. There was another society in which he held a few shares, where they did a greater business with less expenses. (Hear, hear.) The whole of this toffice were but 1700. Thus there was an increase of 816 ft, in the expenditure of this office were but 1700. Thus there was an interease of 816 ft, in the expenditure of this office were but 1700. Thus there was an interease of 816 ft, in the expenditure of this office were but 1700. Thus there was an interease of 816 ft, in the expenditure of this office were but 1700. Thus there was an interease of 816 ft, in the expenditure of this office were but 1700. Thus there was an interease of 816 ft, in the expenditure of th

he directors.

The CHARMAN said, they were obliged to audit their accounts to the 31st December, and they could not depart from it; but the directors were, notwithstanding, prepared to how what was done since those accounts were prepared. (Hear, hear.)
The SECRETARY then read a statement bringing the accounts up to the 30th April last.
Mr. Cox (a director) said, he should like the gentleman who had just spoken to say the description of office he alluded to, as different offices had different plans, according the risks that what the neounter. This society was established under the Joint-Stock the description of office he alluded to, as different offices had different plans, according to the risks they had to encounter. This society was established under the Joint-Stock Companies' Act, which made it necessary for them to state all their expenses—not binding on other companies, which might conceal many of their expenses. Unless the society were known, and all their accounts made up, it was impossible to make any comparison. The business of this company only extended over three years, and it was well known that the first two years had always an excess of business over the next three or four, which arose trom the directors and their friends exerting all their influence in favour of the society. They had shown a large profit in the first year, which had diminished in the following, and would go on till the eight or eventh, when the amount would come back again to that of the first year; this arose from the early sources becoming exhausted; but as new policies came in, it would begin to grow again for another limited period. This was the case with all life offices, without exception. (Hear, hear.) From the commencement of this society, they had steadily increased, and, if the hon, gentleman would only reflect on the state of the country in the past year, and how few, who were so inclined, could spare their money for life assurance, he must damit that, under such trying circumstances, the company had really progressed. He must think so, if he only recollected this fact, that, out of the 39 life assurance companies that had met in the past year, only five of them had shown an increase of business—all the rest had exhibited a decrease. (Hear, hear.) Taking these things into consideration, he felt that the directors were quite justified in stating that the report now presented was most satisfactory. As to the expenses of this company, he could assure the meeting, that the directors were quite justified in stating that the report now presented was most satisfactory. As to the expenses of this company, he could

nd by means of advertisements ar in advertisements. (Hear, onts; that seciety, as stated by Mr. N ar, hear.) They must all know that se kept constantly before the public. 200M. a year in advertisaments. (Hear, near.) Insy must an above that it that every assurance office should be kept constantly before the public. Many ir country friends, when applied to for a life assurance company, had never hear Solicitors' and General Life Assurance Society, and would, consequently, let the

requisite that overy assurance office should be kept constantly before the public. Many of their country friends, when applied to for a life sesurance company, had never heard of the Solicitors' and General Life Assurance Society, and would, consequently, let the parties follow their own course, which glies occisity might realise the advantage. As to the 340l, objected to by Mr. Elicart, he had no doubt it would repay the company three or feur-fold. (Hear, hear.)

The CHARDMAN said, that it had just been mentioned that a difference of opinion extend at the board on the subject of advertisements. It was very proper on the part of that specifisman to draw attention to the subject, and for sir. Elicart to express his opinion. He (the chairman) had only been one year in effice, but he could assure the meeting that the subject of advertisements, as well as economy in the management of this society, had always been subjects that occupied the auxious attention of the directors.

The SECRETARY said, it must be herre in mind that this society paid for its medical reports, which was not done by many other companies.

The CHARDMAN thought they must all agree on the importance of their having honest modical reports, a they would have to run a great risk in taking policies, unless they wait for such medical reports. (Hax, hear.)

Mr. Baccena's that did not pay for their modical reports; when he made this observation—"These pay no medical fees,: we put a tick against them." (Laughter.)

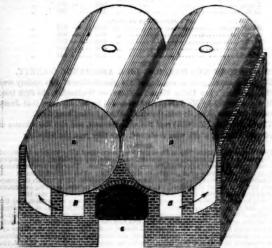
The report was then adopted unanimously.

Messrs. Jones, Torr, Wordworth, and Morris, were re-elected directors.—Messrs. Agricus, and all the such as auditors, and all mided, in very high terms, to the correct and sucid manner in which the accounts were hearered thanks on the part of the sauditors, and alluded, in very high terms, to the correct and sucid manner in which the accounts were presented.—Mr. Workworth, and he heart of the sauditors, and alluded, in very high terms, to the correct and sucid manner in which the accounts were present

HUNGEUFORD MAINET COMPANY.—The half-yearly general meeting was held on Wednesday last,—MARTIN STUTELY, Esq., in the chair.—The report of the directors stated, among other matters, that the new fish market was completed and occupied, presenting a most attractive appearance, and by the accommodation afforded to the public, calculated to improve the trade of the market. The report was received and adopted. The retiring directors were re-elected; and after passing a vote of thanks to the chairman and directors, the meeting separated, with evident feelings of satisfaction at the manner in which the affairs of the company were conducted.

DESIGN FOR A FURNACE AND BOILER.

A new arrangement of furnaces and boilers for steam-engines has occurred to me, which seems calculated to combine the utmost strength of boiler with great economy of fuel. The prefixed sketch will, I think, require but little explanation:—a, a, are two cylindrical vessels, placed in botter with great economy of fuel. The prenxed sketch will, I think, require but little explanation:—a, a, are two cylindrical vessels, placed in close proximity side by side, and communicating with each other by steam and water ways, so as to form one boiler; and in the recess or space underneath, where the two vessels join, I place the farnace, and such part of the recess as may extend beyond the furnace, serves as a flue to carry the flame to the back or further end of the boiler; where the flue or draught is divided in two, and one part of the heated air returns under one vessel, and the other part under the other, along the flues marked B, B, whence it



then passes in the direction shown by the arrows, under the outer sides of the boiler, and onto the chimney. A part of the brickwork is removed in the figure, to show the position of the flues, c, in the ash-pit. It will be observed that the furnace and flues traverse the whole length of the boiler three times, and that the boiler is unquestionably well adapted for strength, while it admits of easy access to any portion of the interior part, for the removal of slate or incrustations, by which boilers are so liable to be damaged.—URIAH CLARKE: Leicester.—Mechanics Magazine.

THE "ARCHIMEDEAN," OR WORM STOVE.

The "ARCHIMEDEAN," OR WORM STOVE.

This is the title of a stove for warming and ventilating dwellings, halls, churches, green-houses, and other buildings; can be employed for the supply of hot sir, or hot water, or steam, for tube warming; and while they can be constructed from the most elegant designs, they are economical, self-feeding or otherwise, and based upon sound scientific principles. An upright stove, for warming buildings, &c., consists of a fire-place, over which is a conical feeder surmounted by a moveable cap. Around this feeder is the air chamber, communicating with the atmosphere at bottom, and having openings in the top for the egress of the heated air. Around this air chamber the fluc traverses in the form of a screw, and its evolutions between the internal and external cylinder clongate it to such an extent that 1 ft. in height travels a space of about 12 ft., or in the whole height of the stove a distance of nearly 40 ft., thereby generating and distributing the heat in its progress, preventing the possibility of any escape into the chimney, and, consequently, avoiding the great danger of igniting any surrounding object.

The following aw the directions for use.—Light the fire is the award.

into the chimney, and, consequently, avoiding the great danger of igniting any surrounding object.

The following are the directions for use:—Light the fire in the usual way, taking care not to overload it; when properly ignited, close the ash drawer and furnace door, take off the top of feeder, and put in the quantity of broken coke, not larger than a hen's egg or walnut, required for its time of action. The coke is supplied to the feeder by means of an iron funnel, which is sent with each stove for that purpose. The opening of the ash drawer, or furnace door, after the feeder is charged, will entirely depend upon the construction of the stove, and whether intended to work as an open fire or not, the accompanying diagrams clucidate the principle for either purpose; but the draft will be more rapid with the door closed, and the ash drawer open, but with trifling alterations in the transdepend upon the construction of the stove, and whether intended to work as an open fire or not, the accompanying diagrams clucidate the principle for either purpose; but the draft will be more rapid with the door closed, and the ash drawer open, but with trifling alterations in the manufacture, entirely opposite. When the principle is applied for warm water or steam, it has the form of a flat cylinder outside, with disc cover, inside which the spiral flue is applied, but not rising upwards, as in the above case; it forms a helix traversing the water from circumference to centre; ever this a steam-chest is placed, in which are put the ingress and exit pipes. They are calculated to generate steam at a very rapid rate, and appear fully efficient for the purposes for which they are intended.

Improvements in Cocks and Valves.—Messrs. P. Llewellin and J. Hermans, of Bristol, brass and copper maintacturers, have just patented some improvements in the manufacture of cocks and valves for drawing off liquids. The passage of the cock, or tap, is closed, or opened, by means of a disc, ground amooth, or provided with packing, to fit tightly over the aperture in the barrel. The disc is furnished with a rod, screwed at top, which takes into a female screw tapped in the stem of the handle, and with feathers fitting into the bottom of the barrel. The top of the rotary stem is provided with a flange, or collar, ground smooth or fitted with packing, and a cap is acrewed over it on to the body of the tap, in order to prevent the escape of water or steam. Various medifications of this construction are shown and described, but which do not appear to possess any distinctive or important feature.—Claim: The construction of the various parts described, particularly of the accurately ground steam and water tight shoulder of the rotating stem, with or without packing, whereby the disc-valve is raised or depressed, guided (see in orig.), and the cock rendered steam or water tight.

THE EXPLOSION AT TRESCOLL MINE.

Sin,—If your correspondent, who signs himself "A Mine Proprietor," will come forward in proprin personse, and favour me, through the medium of your paper, with his real name, I shall be happy to exchange a few remarks with him, through the same channel, on the late unhappy explosion at this mine. I cannot forbear observing, by the way, that there is a feeling exhibited throughout his letter, by which he would appear to be actuated by some principle which bears but a questionable relationship to either Christian charity or common humanity. He will not, doubtless, hesitate to maintain the position he has assured, more especially when he is assured that his antagonist is nothing more than an ordinary "Luxulian man."

JOSEPH POLSUS.

WHEAL TRESCOLL BOILER EXPLOSION.

SIR,—In the letter of "A Mine Proprietor," inserted in your last week's paper, an allusion is made to a rumour being current, that the accident was anticipated. I beg to inform him, or any one else whom it may concern, that there is no doubt such rumours emanated from my office, for it has been a subject of common conversation here for this last six months; it was also well known to the purser and managing committee of the company; but if "A Mine Proprietor" wishes to know the full particulars of the case, by calling at my office, he may obtain it.—C. S. RICHARDSON, C.E.: 5, Whitefriars-street.

TRANSFER OF SHARES IN MINES—ARE STAMPS REQUISITE?

Sur,—I observe a letter in your Journal of last week, signed "W. H. G." animadverting on your remarks in a previous number, with reference to the transfer of shares in mines; and, as your correspondent is doubtless a professional man, he may be somewhat desirous of considering the question, to use his own phraseology, "a-legal one." This may be very well for those whose logal acumen and practice bring in the legal fees, and their royalty or dues, but for the adventurer, I, for one, beg to differ with your correspondent. He tells us that the test he "would propose (I presume counsel's opinion) for solving it" (that of the necessity of stamping transfers) "is, whether in the event of having to give in evidence in the superior courts a transfer of this nature, it would be receivable, if objected to, without being stamped as an agreement, under which in their usual form, such an instrument would be ranked?" Such is the query put forth by your correspondent; and I think a word or two of common sense will at once prove to him that he goes far beyond his depth (I mean of knowledge) in advancing an opinion, and that without he looks for a fee, which I think he is not very likely to obtain, without he can put forward more legal knowledge than he has displayed in the present instance, it would be well were he to avoid again committing himself in print: at the same time that I may observe he shows himself to be no friend to the miner in pointing out the assumed obstacles, in the way of charges, attendant on the transfer of shares. I should be glad to know whether "W. H. G." cannot scrape up more than he will ever obtain by proceedings on unstamped transfers, I fear his will be a sad lot. However, he has perhape resorted to the present as a dersier resort.

Temple, May 30.

MINING IN THE CARADON DISTRICT. TRANSFER OF SHARES IN MINES-ARE STAMPS REQUISITE?

MINING IN THE CARADON DISTRICT.

Sir.,—In looking over your valuable Journal of the 19th inst., my attention was drawn to some remarks relative to the mines in this district; and it appears was drawn to some remarks relative to the mines in this district; and it appears to me the writer is like a mariner who goes to sea, intending to arrive at some distant port, but is destitute of either rudder or compass to guide him, and the result must be obvious—he goes where he knows not; and had he known anything of what he was writing about, he could not, if he intended to convey the truth, and inform the public, have made such unjustifiable remarks; or, indeed, if he knows the district, it is evident he has some very improper motives in view, as nothing can be farther from the truth. The writer commences with Caradon Copper Mine, and says the number of lodes in it are three; but I beg to inform him, that not less than seven lodes are opened on, which will average more than 4 ft. wide; two have been driven on at the 30 fm. level for many fathoms, and are composed of soft spar, prian, peach, and mundic, with rich black, grey, and yellow ore, and a continual improvement in sinking the shaft, which is 30 fms. only; and if these prospects are not encouraging, I, for one, shall consider it a valuable piece of information to be informed what is. Secondly, he speaks of Caradon United; it has been always understood the lodes in this district are east and west lodes, and some of the lodes in South and West Caradon Mines run through Caradon United sett, and yet he says it is about three-quariers of a mile a little to the south of west. He also states the lodes have no regular and well-defined walls. Mr. Hitchins, of Devon Great Consels, inspected this mine some few weeks since, and reports as follows:—"The lodes have a very approved appearance, being fully 10 ft. wide, with well defined walls, and underlay about I foot in the fm." Who shall we believe, a man of such high integrity as Mr. Hitchins, or one who pretends to know something, but, in reality, knows little or nothing? Rather let us believe the former, and let the later sink where his name is—in the dark. Thirdly, he arrives at South Caradon Mine; this sett, to me the writer is like a mariner who goes to sea, intending to arrive at some distant port, but is destitute of either rudder or compass to guide him, and the

[From the Plymouth Journal.]

[From the Plymouth Journal.]

WHEAL FRANCO.—The agent reports that the lode in the 62 fm. level, west of the engine-shaft, has been interaceted by a slide, which is underlaying south about 20 feet in a fathom, with a dip of about 1 in 10 westward. Before the lode was intersected by this alide, it was large, kindly, and producing some good stones of ore—it has still the same kindly appearance in the part that is being traced forth under the slide. The lode in the 62 fm. level east is still poor, but it has much improved in its character within the last 6 feet, and he thinks there is a chance of further improvement in that end soon. The 47 fm. level has been driven south into the lode—it has produced a little ore, but not of much value. The 32 fm. level east has been driven about 3 fms. through a kindly and orey lode, and it is better at present than it has at any time before been. On the whole, the onds are a little improved since the last meeting. A dividend of 11, per abare was declared, to be paid on the 20th June, leaving, after its payment, a balance of 3801. 15s. 1d. in favour of adventurers, in hands of the purser.

to be paid on the 20th June, leaving, after its payment, a balance of 3801. 15s. 1d. In favour of adventurers, in hands of the purser.

PLYMOWTH WHEAL YNDAND.—The new south lode underlies regularly about 3 ft. in a fathem, and is 4 ft. wide. A shaft has been sunk about 14 fms. on the course of the lode, which is composed of layers of kills and tin capel—some of the latter much richer than others, which causes the value of the lode in the shaft greatly to vary. The workings on the middle lode are suspended, and the shaft full of water: this shaft is so situated as to take the south lode at from 70 to 80 fms. deep. The north lode is, in the opinion of the agents, who have inspected the mine as far as seen, by far the most promising in the est. This lode has been again cut in the costean pits, about 60 fms. to the west of the shaft, in which the tributers are working, and has in it at this place good stomes of in; to the east this lode has been traced several hundred fathoms, and a great part of this lode above the backer taken away.

PLYMOUTH WHEAL YEOLAND EAST.—The engine-shaft is progressing rapidly, and proparations will shortly be made for sinking under the adit.

BIRCH Tea.—The lode in the end of the shallow adit is improving, and is now warth bout 6l. per fm.—there is no other alteration in the mine.

about 61. per fm.—there is no other alteration in the mine.

WHERL ANDERTON.—This mine has been sunk to the 90 fm. level. The 70 fm. level has been extended westward about 55 fms., where there is a good lode. The 80 fm level has been extended from 18 to 20 fms. east, and the lode here is good; the 90 west has been extended from 20 to 30 fms. east, and the lode here is good; the 90 west has been extended from 20 to 30 fms. and is approxing the shoot of tim met with 18 the 70 fm. level. The 90 fm. level has been driven 12 to 16 fms. east and west; both ends are improving, and the mine is looking well. Our ove ampling is regularly from 12 to 14 toes morthly, and more would be returned if she had more sample—she is making some profit to the adventurers.

WHERL CARTON.—A very fine course of ove has been cut in this mine, which has caused shares to be sought after at considerably increased prices.

CORNISH STRAM-ENGINES.

functace nour pressure a courses widows unbouse, main white an en sur and the	
PUNPING-ENGINES, WILL SEE AND	NEW Y
Number reported Average load per square inch on the piston, in lbs. Average number of strokes per minute Gallons of water drawn per minute Average dray of 19 engines—being million lbs. lifted 1 foot high, by the consumption of 1 ewt. of ceals Actual horse-power employed per minute	5·3 5309
Hourly consumption of coals per horse-power per hour, in ibs.	ler4-1
Number reported	19
Number of kibbles drawn	5,930
Average depth of drawing, in fathoms	195
1 cwt. of coals	52.3
Average duty of 14 engines, as above stamps. Number reported stamps.	15.7
Number reported	7
Average number of strokes per minute	12.9
Average duty of 5 engines, as above	35.0
Actual horse-power employed per minute	111.1
Fowey Consols Millions	96:2
Par Consols	99.4
Par Consols80-inch single	90'1
Great Polgooth 80-inch single	88'4
Callington 50-inch single	78-1
West Fowey Consols	73-7
Fowey Consols	30.3
Par Consols	26.0
Fowey Consols	25.6
Great Polgooth	20.0
Tincroft Millions	4916
Tamar30-inch single	41-7
South Caradon	88-8

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MORE GOLD DISCOVERIES-CALIFORNIA ECLIPSED.

We find the following curious account of a vast deposit of gold, which is said to exist in the interior of Peru, in El Commercio, of Lima, of 31st of March

We find the following curious account of a vast deposit of gold, which is said to exist in the interior of Peru, in El Commercio, of Lima, of 31st of March last: it is inserted in the shape of a letter, from one of the passengers from Valparaiso to Callao, on board the English steamer, on her last trip (March):

"I take the opportunity of communicating to you the substance of a conversation which passed between Gen. O'Brien and several of his countrymen, on board the last English packet, on her voyage from Valparaiso to Callao. It seems that Gen. O'Brien sojourned during several months of the year 1829, residing at the principal mines of Contogo Soco, where he learnt from an old miner, Don Marcos Lisboa, that in the vicinity of Paurcartambo there were some hills that were perfect masses of gold, and within 20 leagues of the River Ninto Abajo, there were immess plains and washings of gold, without end—that in the year 1754, the Portuguese arrived there with over a hundred labourers, but that in a short time upwards of one thousand Indians assembled, and massacred every one of them in one night. Not one soul escaped. Gen. O'Brien did not fail to pay attention to this information, and resolved to enter this territory by the way of the valley of Paurcartambo, in preference to going through the Brazils, the distance by the latter route being so great.

"In the years 1844-6, Gen. O'Brien made two journeys to the valleys, and in 1835 prepared an expedition, well provided with all those kinds of goods which are best calculated to please savage indians.

"He started from Cuzco, accompanied by one servant, a muleteer, and a miner; he performed the journey and returned to Cazzo in five months, and only brought back a bandkercher full of sand, which was washed at the min of Cuzco. It proved very rich.

"The result of his journey was published at that time in the Cuzco papers, and he had private interviews with Gen. Gamarra, at which he offered to pay off the national debt of Peru within three years. The country was at this

California.—We learn from New York, that the Tyrose had arrived at New Orleans from Vera Cruz, bringing dates from San Francisco to the 7th March. The news of the desertion of the steamer California is confirmed; the crew had left her, and were "digging" at the mines. The crew of the Oregon had also left that ship. It has been ascertained that the gold region extends to Lower California. Building lots in San Francisco were selling at enormous prices, some of them as high as 35,000 fr. The steamer Coresent City had returned from Chagres, bringing a few passengers and a little specie from Havannah, but no gold dust. No steamer had yet returned to Pannam from San Francisco, though quite a flast of sailing-vessels had arrived, and were taking up the emigrants very rapidly, at \$200 each the passage. The rainy season had not yet set in, but was daily looked for. The survey by the American engineers was nearly completed, and they were about returning home to complete their mapping and calculations, and receive offers for construction. There was at last some system adopted in the mode of transporting freight and passengers across the islamus—Mesers. Lea and Leach being actively and accessfully engaged in the business. Provisions were very cheap at Chagres, and the season had been healthy. The steamer Panama was expected daily from below, and the Oregon from above, as her captain had determined not to let his crew desert, as did that of the California. The Government of Nicaragua (if there be any such thing) have granted the right of way across its isthmus to a Mr. Brown, of New York, for a small sum (\$10,000). He is to make a ship canal and railway within 10 years; it is doubtful, however, whether its Congress will sanction the agreement, as a better offer has been already under by another American now in that country, which offer is to be supported by direct negotiations from our own Government, and a decided recognition of the independence of Nicaragua. This proposition, backed by funda from heavy New York capitalist

Nicaragua. This proposition, backed by funds from heavy New York capitalists, will, of course, be successful.

Specie from California.—The accounts from California come down to the 7th March, by way of Mazatlan, and we have seen letters from San Francisco which state that a very profitable business was being done in several articles of import. Her Majesty's ship, Calypso, which left Mazatlan in March, for England, has a piece of gold on board weighing; blo, consigned to a Liverpool house; and, on the ship's arrival, those who are scapical of anything but small grains being discovered in California will have the correctness of their opinions tested, as there will be no difficulty in ascertaining whether it be in its native state or not. We have also seen bills of lading by this mail for about \$80,000 of gold; and, though on account of a Liverpool house, it is distributed to various and distant places—part to China, part to New South Wales, part to Valparaiso, and remainder to England. We mention the circumstance in support of remarks which previously appeared in this article, that England could not expect to be the first recipient of the treasure, as she had not sent the means of purchasing it, and did not offer the same inducements as the nearer markets for investing in goods, produce, &c., for consumption in California.—L'pool Albion.

ACCIDENTS.

Kingswinford.—J. Short was dreadfully injured by a fall of coal at Messys. Junes and Oakes's colliery.

Oakes's colliery.

Stratford-on-ton.—A time-keeper at the Mickleton Tunnel, named Thomas Rumbles marrowly escaped destruction under the following circumstances:—It appears that he was about to descend into one of the shafts connected with the undertaking, but by some mishap missed his footing, and was precipitated to the bottom. He full a height of between 80 and 90 feet, and, as might be expected, was completely stunned; but abortive after he was discovered, and conveyed to his leadings at Campden, when he railled, and, ander the care of Mr. Hiron, surgeon, is doing well. It is extraordinary that not a single begine was broken or displaced, and beyond being somewhat bruised, he essaped almost unhurt.—Birmingham Journal.

before we broken or deplaced, and beyond being sensewhat bruised, he casesped almost bushurt.—Birmingham Journals.

Botter Explosion.—A boiler explosion took place at one of the collieries of Mesars. Baguali, situated utar Caponfield Furnaces. The boiler was a large round one, weighing about 5 tons; and the violent nature of the explosion may be armined, when we state that it was thrown a height of more than 30 feet into the sit, and fell a distance of nearly 60 yards from the engine-hease. The engineer was slightly scalled, but with this exception no one austained injury. The rumanure that this explosion took place in consequence of the engineer having allowed the boiler is get red hot, and afterwards suddenly let some cold water into it.—Plot.

Billoon.—An explosion of fire-damp took place in a pit belonging to Mr. Hickman, by which three of the wardmen, two men and a boy, were very seriously injured, although fortunately not to such an extent as to render thair recovery improbable. Mescham, the "butty" of the pit, had tried the asfity-lamp a short time before the explosion took place, and no sulplur or fire-damp was then observed.

Rosiey Raysis.—Wm. Stringer was dreadfully injured by a fall of coal at Mesurs. Hadgor's Belifarm Colliery.—Thos. Smart was dreadfully burnt by an explosion of sulphur in a pit belonging to Mesers. Hopkins, at Dudley Part.—Thes. Oakley was seriously injuried by a fall of coals at the New British Iron Company's New Lion Colliery.

While some brickhayers were employed at Mr. Sparrow's iron-works, in Horsley-Aalds, making additions to a forge, and J. Clarke was winding up bricks and sortar to the mun at work on the scaffold, by an accident one of the mee caused a brick to fall, which came in contact with the small of Clarke's back, whereby he received severe bruistees on his spine.

Marthyr.—A collier, named John Roes, was killed by a fall of rubbiah from the top of the level at Panyladeron Works.

A number of bollermakers at Mesers. Petrie's brass and iron foundry, Rochadie, were em

Mining Correspondence.

with advertisement duty dil reports having the agents' names affixed, we appealed to them in a memorial, setting forth that we, or the respective companies, desired no advantage therefrom—the only object sought, or obtained, being that of affording to the mine adventages and public the greatest guarantee we could for the truthful and bad file nature of the statements periodically set forth, by authenticating them, and thus fixing a responsibility on the writer. The Commissioners have replied, that "the reports, with resmes attached, are advertisements, and that duty will be charged thereon." We have no alternative but authentifung to their dictum. How far the Commissioners are correct in the view they take, our readers can judge as well as ourselves;—we can but hope that, on reflection, they will see the error into which they have fallen, and rescind the orders they have issued. All reports inserted under this head, however, may, as heretofore, he considered as furnished by the regular agents of the company; and we shall carefully guard against the publication of statements which cannot be relied on as correct.]

BRITISH MINES.

AYLESBOROUGH.—In diving west from Henry's shaft we are intersectug several branches; we last weak cut a branch of the running parallel with the lode
to lede is about it in. wide, composed of prian, capel, and tin—good work. We hope
a mother week, to see more of it; at present there is every appearance of shortly
string into a rich bunch of tin.

by another week, to see more of it; at present there is every appearance of shortly getting into a rich bunch of tin.

BARRISTOWN.—The lock in the adit end esst has greatly improved in appearance since my last, it is about 1 ft. wide, with good stones of lead mixed through it; the underlay is still very great. The stopes behind this end are looking rather better, and the silde which crossed the lode at right angles in the adit level is taking a more existerly direction in the back over, thereby lengthening the course of ore making on the stide. The leate in the stopes in the bottom of the adit level is without any change. The back of fin. level is producing about 5 cwts. of lead per fin. In the winze sinking in the bottom of the 16 fin. level, the lode is producing stones of ore, principally composed of carleants of Iron. We are stoping the bottom of the 16 fin. level, ask of the wirms, and the lode looks much better there, producing about 5 cwts. of lead per fin.

BEDFORD UNITED.—The engine-shaft and the 103 fin. level are the same as last reported. The lode in the 90 fathom level cast is 2 ft. wide, and yielding about 5 tons of ore per fin.; in Burley's winze, in this level, the lode is 4 present worth about 5 tons of one per fin.; in Burley's winze, in this level, the lode is 18 in. wide, good work. There has been no lode taken down in the 70 fin. level east since last report. We weighed at Morwellsam, on Friday last, March ores, 115 tons 7 cwts. 3 grs., and sampled April ores, computed 114 tons (2) cwts.), superior quality ore.

BRYN-AR-IAN.—I see no alteration in this mine worth mentioning since my last week's report. The lode in the engine-shaft still yields 15 cwts. of ore per fin. The stope, back of the deep adit level, east from the shaft, is worth 15 ton of ore per fin. The stope, back of the deep adit level, west from the shaft, at present is producing 1 ton of ore per fin. The stope, back of the deep adit level, west from the shaft, at present is producing 1 ton of ore per fin. The stope, back of th

The stopes, back and bottom of the shallow adit level, are worth 1] ton of ore per fin. The stope, back of the adit level, west from the shaft, at present is producing 1 son of ros per fin. We have commenced dressing to prepare for the crusher, which is now arrived at the mine, after six weeks' delay, occasioned by contrary winds, but I hope now we shall soon got in course of working.

CAMBORNE CONSOLS.—Since writing my report, inserted in last week's Journal, I have ascertained that they have made another very important discovery in these mines. On Saturday last they cut into a very fine and promising lode in the 40 fm. level, west upon Martin's lode; it is a large lode, upwards of 2f. wide, with good stones of ore, areacleal pyrites, sulphuret of zinc, &c., leaving no doubt of their getting by this another good course of ore very quickly. From the most recent information tobtained, if and that this discovery is rapidly improving, and of vast importance to the proprietors, as it will drain the course of ore in Martin's winze, 70 fms. west of this end, to the depth of 80 fms. from surface. They are now preparing for the next Roskear telecting from 25 to 30 tons of ore, estimated worth about 9. per ton, and I have no doubt that they will be able to bring from the present discoveries about 30 tons of ore per mount to trans, with a certainty of soon increasing those quantities, and a probability of being doubted. CWM ERFIN.—Our 20 fathom level, east of the engine-shaft, is producing about 80 to 100 to 100

four men, at 11s. 6d. The 36 fm. level, at Church-lane shaft, is under water,

HAWKMOOR.—This mine still looks well; they have driven 16 fathoms
through a fine solid course of firm yellow copper ore, and the lode now in the end is 24
feet wide—solid; all fit to be put to pile. They have cut down the shaft, and are just in
order to sink for another level, and a good course of ore to commence sinking the shaft
on, which will pay for sluking. I think we may anticipate a fine course of ore in the
next level, as, in the la-\$5 fm.s. sinking, the lode is much improved. We have sampled
and solid 3 parcels of good ore, and will soon sample again, and sell by private contract.

HEIGNSTON DOWN CONSOLS.—Bailey's engine-shaft is sunk 10 feet
below the 35 fm. level. The lode in the 35 fm. level be said shaft, is large, but
at present poor, although of a kindly description. Hitchins's shaft progresses satisfactorily, the lode in which is 18 inches wide, of a promising character, producing a little
copper ore in pluces.

torny, the lode in which is is menes wide, of a promising character, producing a fittle copper ore in places.

HOLMBUSH.—The lode in the 182 fm. level, west of the diagonal shaft, is from 8 to 18 in, wide, composed of spar, mundic, and stones of copper ore. The ground in the 130 fathem level south, east of Hilchina's shaft, is just the same as last reported. The lode in the 130 fm. level south is 4 feet wide, composed of quartz, prinar, and lead—awing work. The lode in the 110 fm. level south, with the pitch in the back of the level, will produce 6 ewis, of lead per fm. There has been no lode taken down in the 100 fm. level, east of the great cross-course, on the flap-jack lode, since last reported; we are driving by the saile of it, in order to save it clean to itself, the wall of which locks well. Our boller is thoroughly repaired, and we hope to get it into its place, and attached to the other, by Friday next. We sampled our parcel of copper ores on Friday last at Calstock Quay, 34 tons, and weighted of our parcel of slaver-lead ores, 30 tone 9 cwis. I qr. KIRKCUDHRIGHTSHIRE.—The lode in the 62 fm. level cast is 6 ft. wide, very kindly, with good stones of lead in small branches, worth 5 cwts. to the fm.; the same lovel west is 6 ft. wide, worth 6 cwts. to the fm.; the lode in this said west has also improved, worth 7 cwts. to the fm. The 40 end west is poor; the cross-cut in the 40 east is sfill short of the lode. The vessel has arrived for another cargo of or.

LEWIS.—We have commenced to sink the engine-shaft below the 70 fm.

the 40 cast is still short of the lode. The vessel has arrived for another cargo of ore.

LEWIS.—We have commenced to sink the engine-shaft below the 70 fm. level—ground favourable; the lode in the 70 cast to ½ ft. wide, unproductive at present; the 70, cast of the engine-shaft, on south branch, is worth 51, per fm.; the 70, cast of ladder road wings, on south branch, is worth 51, per fm.; the 60 cast from sump-shaft, on seath branch, is worth 121, per fm.; the wings sinking below the 60, on south branch, is worth 521, per fm.; the lode in the 60 cast, on Cock's branch, is worth 51, per fm.; the lode in the 60 cast of cock's branch, is worth 71, per fm.; the lode in the 50, cast of engine-shaft, on Cock's branch, is worth 71, per fm.; the lode in the 50, cast of copper ore shaft, on Cock's branch, is worth 51, per fm.; the lode in the 50, cast of copper ore shaft, on Cock's branch, is worth 51, per fm.; the lode in the 50, cast of copper ore shaft, on Cock's branch, is worth 51, per fm.; the lode in the 50 cast of copper ore shaft, on Cock's branch, is worth 51, per fm.; the lode in the 50 cast of copper ore shaft, on Cock's branch, is worth 51, per fm.; the lode in the 50 cast of copper ore shaft, on Cock's branch, is worth 51, per fm.; the lode in the 50 cast of copper ore shaft, on Cock's branch, is worth 51, per fm. The south lode in the 10 cast is worth 61, per fm. The south lode in the 10 cast is worth 61. per fm. The south lode in the 10 cast is worth 61. per fm. The could lode in the 10 cast is worth 61. per fm. The could lode in the 10 cast is worth 61. per fm. The could lode in the 10 cast is worth 61. per fm. The could lode in the 10 cast is worth 61. per fm. The could lode in the 10 cast is worth 61. per fm. The could lode in the 10 cast is worth 61. per fm. The could lode in the 10 cast is worth 61. per fm. The could lode in the 10 cast is worth 61. per fm. The could lode in the 10 cast is worth 61. per fm. The could lode in the 10 cast is worth 61. per fm. The could lode in the 10 cast is worth 61

MENDIP HILLS.—In Charterhouse alag-ground we continue to extend our cutting towards the eastern part of the valley—in doing which we find the beds of alag-stuff precisely the same, both as regards quality and quantity, as it has been for some considerable time past, varying from 16 to 17 ft. thick in the centre of the valley, and gradually diminishing in thickness on either side. In Ubley and Blackmoor, we are getting on very satisfactorily with the making of both the new dressing-floors; in the former we have time weaking strakes sized in their places, and the same number of sline boxes, as also several jigging machines, &c.; in the latter, we have four washing strakes and slime boxes sixed, with the launders for taking the water to the same. The masons are engaged in converting the old workshops into tenements, &c. SOUTH TAMAR CONSOLS.—The shaft is now cleared to the bottom, or told ifm, level, and the men are now employed in cutting ground to enlarge it, dividing it,

SOUTH TAMAR CONSOLS.—The shaft is now cleared to the bottom, or 101 fm. level, and the men are now employed in cutting ground to enlarge it, dividing it, sc., which they will complete in the course of a day or two, when we shall commence clearing the bottom level. The 90 fm. level is cleared south home to the end, which is 59 fms. 4 ft. 6 in., the look is about 3 ft. wide, composed of fluor-spar principally, and worth 8 ewts, of lead per fm.—It is set to drive by four men, at 50s, per fm.; the same tevel is also cleared north for 39 fms. The end is still small, and there is but little of the look left standing, either in the back or bottom of the level. The lode in the 80 fm. level is about 24 ft. wide, composed of fluor and horn-spar, and worth 7 exts, of lead per fm.—It is set to drive at 50s, per fm. by four men. The end in the 70 fm. level south is amberted and the men put to sink a winder to the back of the 80 fm. level or vanifiation. The 40 fm. level is cleared for 50 fms. 4 ft. 6 in; south 57 fms. 5 ft. 6 in, and home to the end; it had been the substitute of the subs

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SOUTH WHEAL JOSIAH.—Since last report we have a great improvement in the adit and driving on the Wheal Jack Thomas iode. The lode is now from 4 to 5 ft. wide, with a branch of white fookan on each wall; the leader part of the lode, which is about 18 in. wide, is composed of white psian, mundic, black and yellow cupper or Jiroke same fine samples of black one from it to-day, and promising further improvement. I have every reason to believe we have a large open lode before as, as there is mov considerably more water flowing from the lode than there was a week since.

SOUTH WHEAL TRELAWNY.—The ground in the angine-shaft is still favourable, the mea having sunk 18 ft. within the last menth; it is now 6 fms. below the 30 fm. level, at which point the spar branch, with some other strings and branches, have formed a junction, making a lode 2½ ft. wide, dipping east 2 ft. in a fm., and is composed of soft spar, numdle, pran, flookan, and apots of lead, which we purpose intersecting in the 50 fm. level, by a cross-cut east from the shaft, in addition to a cross-cut west. The quantity of water we have is just as usual, and the engine works will.

TRELEIGH CONSOLS.—Gurden's shaft, below the 113 fm. level, sinking in the country south of the lode, and is below the 113 fm. level, sinking in the lower of dirto, is suspended. The 50 fm. level, west of dirto, is repended. The 50 fm. level, west of dirto, is suspended from the 70 to the 86. Tarnuf's angine-shaft, below the 30 fm. level, shaking in the country, and is below the 20 fm. level, 8 fathoms The 20 fm. level, shaking in the country and is below the 20 fm. level, 8 fathoms The 20 fm. level, shaking in the country and is below the 20 fm. level, 8 fathoms The 20 fm. level, shaking in the country and is below the 20 fm. level, 8 fathoms The 20 fm. level, which of dirto, is suspended; in the 20 fm. level, west of dirto, the lode is 1 ft. wide, with stones of ore; the 20 cross-cut south is driving in the country. Parent's whinshaft, below the adit, lode 3 ft. wide, with ston

Smith's shaft.

WHEAL VINCENT.—The men, in sinking and stoping on the south lode, are breaking good work for tin; the tributers are also breaking a good pile of the, and are getting good wages. We have, through great difficulty, cut the lode in the streamers' deep cutting; it is shout 2 ft. wide, of a very promising character, producing some good stones of tin; the country about the lode to the present depth, which is about 6 fms., is a complete soft yellow clay; we shall, if possible, drive a few feet, as as to see its underlay, &c., then suspend it, as our engine-shaft is going down in a more settled country, so as to cut it at a greater depth. The ground in the engine-shaft still continues favourable for sinking, and if it continues as at present, we shall get it 10 fms. deep in a fortright. Our wheel works well. I am happy to state that we have a sufficient supply of water; in fact, we do not require half of the stream, even in this dry season. In sinking on the north lode the men are breaking good stamps work.

COMPANY OF COPPER MINERS IN ENGLAND

A meeting of debenture holders of this company was held at the London Taern, on Thursday, May 31 .- Sir GEORGE COOPER in the chair.

A meeting of debenture holders of this company was held at the London Tavern, on Thursday, May 31.—Sir George Cooper in the chair.

Mr. Young read the report of the committee appointed in July last, by which it appeared the committee had not come to any decision regarding the position of the debenture holders, but recommended that another committee should be appointed, to arrange some plan to resuscitate the company, securing the interest of the debenture holders, and to report the result to some future meeting. Mr. Young said, that the committee had ascertained that no doubt the shareholders were liable to the debenture holders; that the latter had not only the right to sue the corporation, but likewise the corporatives individually; this it would be useless to attempt, as were any claim raised against individual shareholders, it would be resisted by them. The Bank of England at present held a mortgage on their property of 270,000/L, of this 120,000/L had been advanced in cash, the other 150,000/L in debentures, which had been lodged as security with them; the Bank was unwilling to force the company into the Court of Bankruptcy; they were in possession of the property, which was making profits, and were they paid the 120,000/L he had no doubt they would cancel the debenture claim. He was not prepared to recommend any plan; he would avoid litigation if possible; a committee of shareholders was already appointed; he thought a committee, and by their joint labours arrange some scheme for the resuscitation of the company, but not to be arraned with fresh powers to conclude any agreement without the consent of a full meeting of debenture holders.

On the question being put, that the report be received, Mr. Ashurst said, that he should oppose it. He represented two gentlemen who held debentures to the value of 19,000/L; he did not think that, if individually they should wish to take other measures, they should be bound by this resolution. In 10 months, it appeared that the committee which had been appointed had done

the mineral property would be lost, as it would revert to the lessess. If they were not unanimous, they might depend the Bank would enter lato no hegociation with them.

Mr. CATOR said, he could not see the force of this argument; in his opinion, so far from being prejudicial to their cause, he thought that individual litigation might accelerate their proceedings with the Bank, and render the shareholders manageable.

Mr. Harrison said, the debenture holders had nothing to do with the bank; they must look to the shareholders.

Alderman Carden said that he had been so often on committees, that he had become treed of them; he had served already on seven committees connected with this company, and they had all ended as this would—in smoke. Their property was comparatively valueless; they had discovered they could make iron for the sum of little more than 51, per ton, while their selling price was 21.10s. The directors had not the power to sue the shareholders for their calls; the only power they had was to ferfeit the shares. He should subscribe nothing for the resuscitation of the company; it was a complete wreck. He would be willing to sell his debentures for 2s. 6d. in 11. Here was a losing concern, producing iron for 5d. at on, and selling at 44.10s. All the large ironmasters had large stocks of iron, and were making more. Where would be the demand for it? They must know that, although many railways had obtained bills, yet there was no likelihood of their ever being proceeded with, and for this depreciated property they were to be called upon to pay 120,0000.

Mr. Isolus observed, that what was said by the worthy alderman with regard to the iron trade might be true, but there was their copper trade, and which, with a canital of 76,00004, they had formerly produced 40 tensus were week.

Mr. Inglis observed, that what was said by the worthy alderman with regard to the iron trade might be true, but there was their copper trade, and which, with a capital of 76,0004, they had formerly produced 40 bons per week. If that were doubled, they would produce copper in the same ratio. He thought they should make a vigorous and efficient movement to resuscitate the concern. During the first 40 years of the present century, with only a capital of 100,000/t, they had made a dividend of 5 per cent; this had been carried on until 1844, when things had changed for the worst.

Ald. CARDEN said the property was not worth 100,000/t. Capt. Heavisides had been sent to reportupon it; after he had been there three days he had asked him if he would give 50,000/t for the plant, when he candidly told them he would not. He thought the best thing for them would be to allow the Bank to proceed against them. If they were put in the Court of Bankruptcy, there would be such a searching investigation, that they could obtain in no other place; there was an impossibility of their coming to any unanimity without such a step was taken—ruinous as it appeared to be, it seemed to him the best course they could pursue. If the property was put up to the hammer, they could purchase it at a much lower figure than it could be obtained from the Bank by negotiation,—A discussion here espaed; and ultimately-the resolution, that the report be received, was carried.

On moving the next resolution, "that a committee be appointed with full powers to discuss and prepare any plan, without concluding any grangement, and report the result to a future meeting," Mr. Caron moved, as an amendment, that the words "and that without any prejudice to any of the deben-

ture-holders who might choose to assert their rights by lagal measube added to the above.

the added to the above.

The amendment, being put by the chairman, was negatived, and the original resolution carried.

On the question of a committee being appointed, it was found that none of the meeting were willing to serve, and it was ultimately agreed "that the present meeting do adjourn until this day month, or earlier—due notice being given in the paper, seven days previous, of such meeting.—The meeting than separated.

GUADALCANAL SILVER MINING ASSOCIATION.

A general meeting of shareholders was held at the offices, Broad-stree uidings, on Wednesday, May the 30th.

Separated.

GUADALCANAL SILVER MINING ASSOCIATION.

A general meeting of sharebolders was held at the offices, Broad-street-buildings, on Wednesday, May the 30th.

GEODOR HUSLEY, Esq., in the chair.

The SEGRETARY (H. T. Ryde, Esq.) having read the advertisement convening the meeting, the report of the board of directors for the past year was submitted, as also a letter from Mr. W. Michell, the mining captain at Guadal-canal, dated the 18th May. DIRECTORS HIPOET.

The directors of the Guadalcanal Silver Mining Association have to report to the shareholders that they, in 1848, allotted the 2000 shares, and in the month of Jane following dispatched to Spain Mr. Duncan Share, as their superintensiont, and Mr. William Michell Silver Mining Association have the shareholders that they in 1848, allotted for the wind of the shareholders that they in 1848, allotted having commenced operations of the shareholders and the shareholders are shareholders and the stam-engine and miterials, complete, for unwatering the mines, and 18 men, elected in Cornwall, as competent miners and artiflers. The men and the stam-engine reached Guadalcanal on the 4th of the 1848, and there having commenced operations to the shareholders and the shareholders are shareholders and the shareholders and the shareholders are shareholders and the shareholders are shareholders. The shareholders are shareholders and the shareholders are shareholders and the shareholders are shareholders. The shareholders are shareholders are shareholders and the shareholders are shareholders. The shareholders are shareholders and the shareholders are shareholders. The shareholders are shareholders are shareholders and the shareholders are shareholders. The shareholders are shareholders are shareholders and the shareholders are shareholders. The shareholders are shareholders and the shareholders are shareholders and the shareholders are shareholders and the shareholders are shareholders. The shareholders are shareholders and shareholders are shareholders and shareholder

and nine specimens. I main a the samples from the lovel, to be worth 500, per this, not be much mineral, it as rich as the samples from the lovel, to be worth 500, per this, not be much mineracted by a slide, which has split the lode and altered its course, and I am inclined to think the main part of the lode from this place south is unwrought; however, a small trial will prove this."

The statement of accounts having been read to the meeting, which showed a balance remaining in the directors' bands on the 31st of March of 445644, the CHARKMAN sold, that previously to patting any resolution, he should make a few remarks on the prospects of the company. The directors had from the first possessed great condidence in the undertaking; but it was one thing to feel confidence, and quite another to be able to impart that same feeling to the general body of shareholders; the only way to do this was to put them in possession of every fact, so that they might be able to know exactly the state of their affairs. When the company was first projected, a pamphle that be shareholders; there being but few copies of this, it had not obtained the required circulation; and it being destrable that the shareholders should be fully informed of their proceedings, they had prepared another pamphlet (the proof sheet of which he had seen to-day), giving an account of the proceedings of the company from its formation to the present time; this in the course of a few days will be in the possession of every one, and they will be in the same position as the directors. The mine has been unwatered to a certain extent; and, according to Capt. Michell, they had ore in sight. The accounts, which had been laid before them, showed a surplus in hand of 445642; its, they must remember, was at the end of March. The balance at present was about \$5600½ out of this there remained to be paid to the Spanish company the sum of 12004. The question was now, whether it would not be protent to raise few lates and the sum of the case of the Australian Mining Comp

and now about 2600L in hand, and should see what could be done with that-He wished to ask what their present monthly cost was; and what would be the amount required to build smelting works?—The CHARMAN said, the ex-cenditure was about 400L per month; they had in hand enough for about two or six months.

Mr. Honge observed, that the expense of crecting smelting-works would be

five or six months.

Mr. Honge observed, that the expense of crecting smelting-works would be about 5000l; for this sum he would contract to crect them. People had a false idea of the cost of smelting-works; they had always in view the gigantic establishments in England; but abroad, and in Cornwall, there were small furnaces which did not cost 100l. each. The works that he would erect there for that amount should consist of winding and crushing machinery, four reverberatory, and two refining furnaces.

A SHARKHOLDER stated, that there were 14 or 15 silver smelting-works in Spain who would be willing to purchase all ores they might raise.

A desultory conversation here ensued as to whether an engine should be sent out to reduce the halvans of the old stock; ultimately it was decided that the paragraph in the report recommending the smelting of ores on the spot should be withdrawn.

be withdrawn.

The report was then approved of, and Mr. Quick elected an auditor for the year ensuing.—It was then resolved, that a sum of 350% be paid to the directors for their services for the ensuing year, to be deducted out of the first profits of the mine.—A motion for a vote of thanks to the directors, for their exertions in the service of the company, was then put, and unanimously carried.

On returning thanks, the CHAIRMAN, on behalf of himself and colleagues, said, that they had no wish to accept any remuneration until the mine was paying a dividend.—The meeting then separated.

COMBLAWN MINING COMPANY.

A general meeting of adventurers, duly convened by the purser, was held at the offices, King-street, Cheapside, on the 31st May—P. P. COUCH, Esq., in the chair—when the minutes of the committee of 10th April and 8th May were read by the secretary (J. Croft, Esq.), and confirmed.—It was resolved, that a treaty be entered into for the purchase of the engine now on Wheal Martha Mine; and the accounts for all labour and materials to the end of April last, having been presented, were paid, the mine being thus entirely out of debt.—The agent reported, that in clearing the adit at the old mine, 55 fins. down, some fine stones of lead ore had been found amongst the attle.—Orders were given for the erection of a smith's and carpenter's shop, and for other work, preliminary to the placing the engine over the above shaft.

TREGORDEN MINING COMPANY.

A general meeting of shareholders was held at Liskeard, on Friday, May 25, when the accounts for Feb. and March were examined and passed, showing —Balance to end of January, 218. 9s. 10d.; cost for February, 116l. 19s. 7d.; ditto March, 116l. 17s. 10d.—452l. 7s. 3d.—By call on 224 shares, made March 24th, 224l.; silver-lead ore sold, 128l. 1s. 3dl.; showing balance due by adventurers, 100l. 6s. A call of 10s. per share was declared. The following report was read to the meeting:—

Was read to the meeting:—

Moy 25.—The lode in the 12 fm. level north is 2 ft. wide, principally of friable quart.

1f. of which being intermixed with lead is saving work. This level is driven, since the last meeting, 23 fms.; and the ground in both the back and bottom will pay well for working; present price for driving 30s. per fathom. This level south is driven 7 fms. the lode throughout has produced an average quantity of lead, and in the present end in is 10 inches wide—good stamps work. The stopes in the back of this level are, on an average, turning out tolerably well. The last parcel of ore is sold to Messra. Michell and Son, at 33t. per ton; and, about the 6th of June, we shall sample 5 tons of the same quantity.

WEST WHEAL TREASURY MINING COMPANY.

WEST WHEAL TREASURY MINING COMPANY.

At a meeting of adventurers, held at the mine, on the 28th May, the accounts for two months ending March, were presented, showing—Labour cost, Feb. and March, 5821. 13s. 5d.; merchants' bills, 297l. 8s. 8d.; March 28th, book in debt, 41l. 7s. 1d.—921l. 9s. 2d.—By ores sold, May 10th, 802l. 14s. 1d.; tin sold, 10l. 6s.; received of tributers, 16l. 0s. 6d.; leaving balance due to purser of 92l. 8s. 7d.—The accounts, having been examined, were passed, and the agent's report, detailing the operations of the mine, and recommending the intersection of Wheal Maid lode, by driving a cross-cut from the 50, was received and adopted.—The following report, from Capts. J. Delbridge and T Richards, was read to the meeting:—

ceived and adopted.—The following report, from Capts. J. Delbridge and T. Richards, was read to the meeting:—

**May 28.—We beg to lay before you our report of this mine, commencing with the engine-shaft, which is sunk vertically to the 70 fm. level: cross-cut driven north to the lode at this level about 3 mms, where the lode is extended upon west of the cross-cut 4 fms., lode rather small and poor, but in present end 9 in. wide, with stones of copper ore. The 70 cast is driven 4 fms., the lode in the end has been 6 in. wide, but at present not so large, composed of copper ore. It should be remembered that in the 60 fm. level, we have had a good lode of copper ore. It should be remembered that in the 60 fm. level, 3 fms. cast of the engine-shaft, lode producing 1 ton of copper ore per fm. The 60 fm. level, 3 fms. cast of the engine-shaft nearly 80 fms., tode in present end 10 in. here 10 over this was very productive all the distance to the cross-course, which is nearly 40 fms.; in the winzs, sinking below this level, lode producing 1 fon per fathom. The 50 fm. level of the winzs, sinking below this level, lode producing 1 fon per fm. The 50 fm. level is driven east of Field's shaft 18 fms., and 9 fms. east of cross-course, holde for the last 4 fms. small and poor—the same may be said of the present 50 end. Coulson's engine-shaft, sinking below the 20 fm. level, down 4 fms., lode north of the shaft of a rather kindly appearance. The 50 fm. level, on the Lamack Moor lode, is driven west of the cross-course 6 fms., lode averaging 15 in. in width, producing 18 fms. in discourable appearance than it has of late. The 40 fm. level is driven east of Bickford's shaft 50 fms., the lode has produced much mundle and little copper, at present poor in the end; the 40 cross-course when first interaceted at this level is adven east of the cross-course of Bickford's shaft 50 fms., the lode has produced much mundle and little copper, at present poor in the end; the 40 cross-cut nearly 60 fms. farther to drive. The 30 fm. level

WHEAL TREHANE MINING COMPANY.

MHEAL TREHANE MINING COMPANI.

A general meeting of shareholders was held at Liskeard, on Friday, the 25th May, when the accounts for January and February were examined and passed, showing—Balance from last account, 690l. 2s. 3d.; April 3, silver-lead ores sold, 1500l. 5s. 3d.= 2190l. 7s. 6d.—Mine cost for January and February, and materials, 862l. 10s. 8d.; Trelawny Mine adventurers, for use of engine and water, 33l.; half-year's income tax, 9l. 6s. 8d.; lord's dues, 97l. 12s. 5d.; dividend declared March 22d, 512l.—leaving balance in favour of adventurers, 675l. 17s. 9d. A dividend of 2l. per share was declared. The following report from the agent was then read to the meeting:—

Hom the agent was then read to the meeting:—

May 35.—We have commenced driving both north and south in the 68 fm. level, where
the lede is improved. In the north end it is 16 in, wide, composed of capel, can, and
mundle, with a leader of lead, and worth 6 cwts. per fm. The lode in the south end is
worth 8 cwts. per fathom, and from its appearance, I expect that in a few feet driving we
shall find it much better. The lode in the stopes in the back of the 55 fm. level is producing from 9 to 10 cwts. of lead per fm. The stopes in the back of the 45 fm. level are
without any important alteration, worth 8 cwts. of lead per fm. The cross-cut in the 30
fm. level west is driven about 63 fms.; the ground (being killas) is without any material
change, and moderate for driving. We intend to sample, to-morrow week, about 70 tons
of ore of very rich quality.

GREAT WORK .- At a meeting of adventurers held on the 22d inst., the pur GREAT WORE,—At a meeting of adventurers held on the 22d inst, the purser, Mr. J. W. Clarke, presented the accounts for Jan., Feb., and March, from which it appeared that the receipts had been—For tin sold, 3621./ 4s. 11d.; the expenditure, 2529./ 18s. 1d.: leaving balance in favour, 1091./ 6s. 10d.; to which add balance in hand Dec. last 467l. 19s.: leaves a total in favour of 1559l. 5s. 10d. A dividend was declared of 1190l. (being 10l. per share): leaving balance in purser's hands, 369l. 5s. 10d.

WHEAL MARGARET .- The statement of account to end of March shows By tin sold, 96 tons 16 cwts. 1 qr. 17 lbs., 43821 l0s. 1d.; sundries 51. 13s. 9d. = 43981 3s. 10d.—Labour cost and carriage, 20781 3s. 4d.; c. als, 1671. 4s. 4d.; merchants' bills, lord's dues, &c., 6311. 15s. 1d. = 28771 2s. 9d.—showing profit of 14611. 1s. 1d.; add balance from last account, 2501. 16s. = 17111. 17s. 1d.—Dividend of 121. per share, 13441 : leaving now in hand, 3671. 17s. 1d.

ASHBURTON UNITED .- We understand the last month's amount of tin was 4 tons 2 cwts., which sold at the Charlestown Smelting-Works at 411 per ton, which shows, we regret to say, that a considerable fall has taken place in the price of tin.

price of tin.

DISCOVERY OF A COAL MINE IN MAYO.—The Castlebar Telegraph announces that there has been a coal mine discovered on the estate of Thomas Phillips, Eq., Clomore, in this county. The circumstances are as follow:—About a year since it was reported that something appeared on the surface of part of the demesse, which had the appearance of coal; some of it was brought to the house, and found to burn well; sub sequently, some was used by the smith in the neighbourhood, who found it to answer his purpose well. Matters or remained until about a month since, when an engineer arrived from Dublin (Capt. Griffiths, a Welchman) to take a view of the spot where it was supposed the coal lay. His report was highly favourable; he said we had not only coal of a superior description in abundance, but also iron.

We learn, from a local paner, that a rich vain of lead one has instituted.

We learn, from a local paper, that a rich vein of lead ore has just been discovered on Mr. Collett's mines, in the county of Tipperary. Mr. Collett gives employment to nearly 500 labourers.

employment to nearly 500 labourers.

38. Free Consols.—E. Berriman was descending to his work, with two companions, at the 147 fm. level—one going before, and the other after, when being about 50 fms. from surface, he must have alipped his holdfast, and fell about 6 fms., striking the person before him as he passed, but without knocking him out of the ladder, or doing him any injury. The decreased lived from that time till the 27th, when he died of some internal injury.

RAILWAY AXLES.

TO ALL RAILWAY DIRECTORS, SHARRHOLDERS, AND OTHER PERSONS CONNECTED WITH OR RAVING AN INTEREST IN RAILWAYS IN THIS KINGDOM, AND IN THE WORLD."

Mr. G. B. Thorneycroft, of Wolverhampton, has published a letter, addressed as above apputing "fraud, bribery, and corruption," to those who have obtained orders for the market of two for railway to unseess. TO ALL RAILWAY DINY

Mr. G. B. Thorneycroft, of Wolvernampson, has pure successed a consistency of frank, bribery, and corruption," to these who have obtained orders for the supply of iron for railway purposes.

As evidence of Mr. Thorneycroft's own experience, I am justified in making public the subject of a correspondence I have had with the chairman of a railway company, of which is and his partners were directors, complaining of their having, as members of a sub-committee, exercised their power to supply the company with iron of their own manufacture exclusively.

In consequence of this, some wheels and axies having been lately purchased by that company, these two directors charged for their own iron 6574. 5s. 10d., or 164 per cent, more than the price for which the same description of articles were being at the same time sold by the Patent Shaft and Axie-Tree Company, for the use of other railways.

As a partner in the above company, I became sware of these facts, which, in my capacity of a shareholder in the railway referred to, I exposed to the chairman, and it resulted in the chairman informing me that Mr. Thorneyeroft's and his partner's seats in the direction were forfeited.

I will not remark upon Mr. Thorneycroft's proposals for protecting railway companies in the purchase of their materials, but simply leave it to those to whom his letter is addressed, whether the above transaction is or is not a questionable qualification for the part he wishes to assume as the protector of railway shareholders against "frand, bribery, and corruption"?—Charles Geach: Birmingham, May 29.

RAILWAY ECONOMY.—A few days since, some of the leading Staffordshire ironmasters had an interview with the London and North-Western authorities, on the subject of the manufacture of the metal for the rails. The ironmasters undertook to guarantee their rails for two years, and to institute a series of experiments for the purpose of producing iron of a quality best suited to the wear and tear of railway traffic. Friendly interviews of this character are always productive of great practical good.

RAILWAY CALLS.—The amount falling due during June, so far as at present advertised, is 527,102L. In the same month of last year, it was 2,277,674L.

ENORMOUS RAILWAY GIEDERS.—On Thursday last, two extremely massive cast-iron girders were removed from the premises of Mr. R. Crosland, the Union Foundry, Bradford. They each measured upwards of 58 feet in length, by 4 ft. in depth, and weighed nearly 16 tons each. They are intended for use in the construction of a bridge over the Chesterfield Canal, in the line of the Great Northern Railway, near Bawtry. The transit of these enormous castings through the town of Bradford was effected by means of a heavy waggon, drawn by a team of 12 horses, and excited considerable attention. They were conveyed to the canal wharf in Bradford, and were delivered on board a boat called the Robert Peel, belonging to Mr. Samuel Dixon, canal carrier, who, we understand, has engaged to convey all the castings contracted for. These extended nearly the entire length of the deck of the vessel.

the entire length of the deck of the vessel.

The Manchester, South Jungtion, and Alternoham.—This line is now very nearly completed, so as to enable trains to pass over it, and on Monday the contractors took a great number of their friends from Manchester to Alternoham on an experimental trip, where they treated them with a dinner. It is expected that the line will be opened to the public on the 2d. July.

Opening of the Shropshire Union Rallways.—Yesterday this important chain of railways, by which the county of Shropshire and the adjacent district are placed in direct communication with the metropolis, by means of the London and North-Western Railway, with which they communicate at Stafford, was publicly opened, so that after to day a passenger taking his seat in the express train from Euston-square will be enabled to reach Shrewsbury [160 miles) in five hours. The first train over the Shropshire Union line, which is 30 miles in length, extending from Stafford to Shrewsbury, left the Shrewsbury station at 6 a.m., and reached Stafford at half-past seven, returned again at eight, and others followed during the day. The total cost of the line has been 500,000L, and it is to be worked by the London and North-Western.

The recent discoveries of gold in Australia and Borneo, as announced by the late arrivals from those countries, are partly confirmed by the advices received yesterday from Ceylon. The field of precious metal said to exist in Port yesterday from Ceylon. The field of precious metal said to exist in Port Philip, is a surprise which the inhabitants appear to have been quite unprepared for; for, although it was well known that copper was found in abundance near Adelaide, yet no one suspected that gold existed within 100 miles of Melbourne. Very little is yet communicated on the subject. The mines are said to be in a range of mountains called the Pyrenees, about 100 miles north-west of Melbourne. The next arrivals from thence will probably supply further particulars, which will be looked for with interest; in the meantime, it is stated that the discovery is only second in richness to California. For a century past it has been known that Borneo abounded in mineral wealth. Gold has been dug out of the alluvial soil, and washed out of the sand and gravel of the rivers at Sambas, Sangou, and Banjar, by the Malays and Chinese. It is also found in the limestone ranges of Sarawak; and, by the last China mail, it was announced that recent discoveries had been made of mines in that district, which were likely to add greatly to the value of the province. We shall next week give some particulars of the mode of extracting the gold from the crevices of limestone at Sarawak, from the work of Mr. Low, which will be read with interest at this time; when taken in conjunction, may have an important influence on the trade of the world.

FERSIA WATER FROM SALT WATER—On Monday last the inventor of the

The trade of the world.

FRESH WATER FEOM SALT WATER.—On Monday last the inventor of the new mode of instantaneously producing ice cold fresh water from salt, exhibited his patent apparatus to his Royal Highness Prince Albert, at Osborne House, in the presence of the officers of the royal household and a numerous assemblage of naval officers. After the principle of the invention had been explained by Mr. M'Bride, his Royal Higness examined minutely each part of the apparatus, and particularly the refrigerator and aërator, as to the action of which he inquired in a manner which displayed his thorough acquaintance with the chemistry of the subject. After a patient investigation, his Royal Higness expressed to Mr. M'Bride his entire satisfaction with the results, and with the value and importance of the patent. On Wednesday, the patentee exhibited his apparatus to a distinguished party of the officers of her Majesty's navy and army, and the docky ard authorities at Portsmouth, and had the gratification of receiving the general expression of their approbation of the extreme simplicity and perfect result produced. Previous inventions of the kind have merely distilled sea-water, thus driving off the air and excess of oxygen—the components which render pure water agreeable; and the better the distillery process is performed, the more vapid, flat, and tasteless is the product. Mr. M'Bride's patent aëration claims to produce brisk, refreshing, and natural fresh water, containing the usual complement of air and oxygen and leaving no deposit of salt.

NEW PATENTS.

E. Grundy, Bury, Lancashire, woollen manufacturer, and J. Farrow, of the same pl manager, for certain improvements in machinery, or apparatus for preparing wool spinning, and also improvements in machinery or apparatus for spinning wool, and of fibrous substances.

D. Smith, New York, America, lead manufacturer, for certain new and useful impments in the means of manufacturing certain articles in lead.

R. E. Hodges, gent. Bycroff, Hereford, for improvements in mechanical purch which are also applicable in whole, or in part, to projectiles.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

B. Levy, High Holborn, the Prince (an over-coast).

W. & G. Ashford, Birmingham, improved holder for whip-sticks, & other similar articles.

J. Pannell, Cowley, Middlesex, calorifere for greenhouses, conservatories, &c.

W. B. Pine, Strand, the mimosa or flower cornet.

Wood and Co., Grove, Southwark, cigar lip-guard.

D. Hebson, Liverpool, rudder casing, and rudder for vessels intended to be steered at W. Birtion, Birmingham, lamp for railway carriages.

Theodore de Marillac, Manchester, oil-can spout.

S. Allen and J. R. Beard, Birmangham and Manchester, improvement in braces.

C. Walker and Sons, Clerkenwell, engineers, hydrant and gas sluice valve,

B. Cook, jun., Birmingham, ever-tight bedstead sacking.

Charlotte Henry, Islington, anatomical stays.

J. Guest, Bedford, barley-cutting machine.

Halford and Joseph, Tipton, coke oven.
T. H. Pindar, Cheltenham, self-adjusting waistcoat.
W. Taylor, Birmingham, crushing roller.—Mechanic

	JOINT-STOCK	BANI	KS.	in tool
	Companies.	Paid.	Div. p. cent.	Price.
22,500	Australasia	. £40	£3	£234
20,000	British North American	. 50	6	39
20,000	Colonial	. 25	8	64
-	Commercial of London	. 20	6	201
4,000	Ionian State	25	6	244 25
€0,000	London Joint-Stock			
	London and Westminster		6	
10,000	National Provincial of England		5	
20,000	National of Ireland		6	
20,000	Provincial of Ireland	. 25	8	38
	Ditto New			
	South Australia			
20,000	Union of Australia	25	6	
10,000	Ditto New	24	6	9
60,000	Union of London	16		104

EXPORTATION OF THE PRECIOUS METALS.—The fallowing are the o returns of the exports of gold and sliver from the port of London for the last was Sliver coin. to Butterdam, 7000 ounces; ditto to Belgium, 4900—Sliver bars to Chagen, 48,000; ditto te Rotterdam, 37,000—Gold coin to Belgium, 250.

TRON, HARDWARE, AND METAL TRADES' PENSION

T. B. SIMPSON, Esq. (Vice-President, Treasurer, and Trustee), in the chair,
It was resolved unanimously,—That Heary Clark, Esq., of 108; Shorediich, be elected
a Vice-President of this Society.
At the hour of One o'clock, the Eighth Rule of the Society, regulating the Elections,
having been read, it was—
Resolved unanimously,—That this meeting proceed to the election of six additional
ananalizats, from the list of 14 candidates, declared eligible by the counsuitee—namely,
four of the men and two of the women, polling the greatest number of voles.
The chairman having nominated Messrs, Constable, John Dale, and William Bowsee,
as acruitmers, with power to nominate thier assistants and depatites, the meeting proceeded to the ballot accordingly, when the following votes were recorded—for
George Alan Voles 2481 William Whilely Voles 61
George Paul 2169
John Line 1020
Sarah Littlewood 788
Robert Frost 484
Ans Robinson 766
John Large 791
Sarah Brown 106
William Dods 556
Sarah An Smith 56
Sarah An Smith 56
Sarah An Smith 56
Sarah Hernen 42
Whereupon the chairman declared George Alian, George Paul, John Line, Robert Frost,
Sarah Littlewood, and Ann Kobinson, to be elected to pensions of 20 guineas each.
Resolved unanimously,—That his meeting having been informed of the resignation of
the much respected honorary collector of the society, Mr. Ridge, in consequence of the
growing duties of the office being no longer compatible with his business engagements,
beg to offer him their best and most cordaid thanks for the valuable services readered by
him to the society for nearly three years, by which such a considerable saving in the expenses of management has been effected, as to entitle him to a foremost rank among the
benefactors of this institution.

all occasions.

Resolved unanimously, —That the proceedings of this meeting be advertised, under the committee, with a notice of the seventh election of pensioners, in Nov.

Resolved unanimously, —That the best thanks of this meeting are due to 'T. B. Sim Esq., treasurer, vice-president, and trustee; and H. L. Taylor, Esq., vice-president trustee, for their kindness and courtesy in presiding over the proceedings of this meetings.

SOCIETY.-NOTICE.—The SEVENTH ELECTION of PENSIONERS will take place in NOVEMBER next. The candidates must be deserving and necessitous persons, ecupying, or having occupied, the station of master, traveller, clerk, warehouseman, or apprentice, in any branch of the iron, hardware, or metal trades, in any part of Greas Britain; or the widows of such persons. Printed forms of application may be add of the undersigned, to whom they are to be returned, diled up with the required parientars, on or before the 6th of August next, after which day no application relating, this election can be received.

Further information may be obtained on application to any member of the committee a town or country, or to 67, Upper Thames-street, London. RON, HARDWARE, AND METAL TRADES' PENSION

IMPROVEMENTS IN MANUFACTURING IRON.

IMPROVEMENTS IN MANUFACTURING IRON.

[Specification of patent granted to Edward Schunek, of Rechdale, chemist, for improvements in the manufacture of malleable iron, and in treating other products obtained in the process. — Mechanics' Mogazine.

This invention consists to separating the coating of tin from tinned iron scrap, in order that it may be manufactured into malleable tron, and in the subsequent recovery of the tin. The tin iron scrap is placed in a boiling or hot solution of an altine sulphuret (two preference the persulphuret of solium) containing sulphur in access. The tin will be acted upon by the sulphur, and form a sulphuret of thin, which will be dissolved by the persulphuret of solium, deprived of its excess of sulphur, and form what is termed by chemista a sulpho-stannate or stanno-sulphuret. The fron will be entirely freed from the coating of im. Or, the tin iron scrap may be placed in a solution of oxide of lend, in a caustic alkali or sods ley. The tin, acted upon by the lead, will form an oxide of tin, which will be in turn neted upon by the caustic alkali, and the metallic lead precipitated in the form of a black powder. The iron scrap is then well washed with water, to free it from the solution, and when dried, placed in an iron cylinder or the capacity of about one cubic foot, which will contain, when subjected to moderate pressure, 8 lns. The cylinder is heated to welding heat, and the mass hammered as usual in the manufacture of bar Iron. To recover the tin in the first instance, the solution is boiled until a drop crystallizes on cooling, when the whole is allowed to crystallize, and strained through wire gaute. The crystals are placed in a press, to squeeze out the moisture, and subsequently in a reverberatory furnace, where they are exposed to low heat and roasted. The sulphur is partly expelled, and an oxide of the formed. A mixture of coal, charcoal, or other carbonaceous matter and carbonate of sods, is thrown in, and the heat raised. The missins as alliphuret of sode, and an oxi

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COAL MARKET, LONDON.

PRICE OF COALS PAR TOW AT THE CLOSE OF THE MARKET.

MONDAY.—Bate's West Hartley 13 6—Buddles' West Hartley 14 6—Carr's Hartley 14 6—Hastings Hartley 14 3—North Percy Hartley 13 6—Old Tamfield 12—Ord's Redelengh 12 6—Ravensworth's West Hartley 13 6—Townley 13 3—Wylam 13 9—Wall's End Acorn Close 14 9—Gesforth 14 6—Glosen 13 6—Ellimy worth 14 3—Northumberland 13 9—Eden Main 16—Lambton Primrose 16 3—Belsiont 13 3—Bell 14 9—Hetton 16 6—Lambton 16—Stewart's 16 6—Caradoe 18 3—Heugh Hall 14 9—Denison 14 6—Seymour Tees 14 9—Whitworth Coke 21—Hilda 13 9.—Ships at market, 85; sold, 61.

WEDNESDAY.—Bate's West Hartley 13 9—Buddle's West Hartley 14—Car's Hartley 14—Ord's Redelengh 12 9—Original Tanfield 19—South Poareth 12—Tanfield Moor 13—Walker's Primrose 12—Wall's End Acorn Close 14 9—Framwell Gate 14 9—Hetton 16 6—Lambton 16—Russell's Hetton 16—Stewart's 16 6—Whitworth 13—Adelaide Tees 16 9—Bishp's Tees 14 6—Seymour Tees 16 9—Googen Hartley 14—Derwentwater Hartley 14—Hartley 13 9—Whitworth Coke 21—Eigin 14.—Ships at market, 147; sold, 101.

FRIDAY.—Bate's West Hartley 13 9—Buddle's West Hartley

at market, 147; sold, 101.

FRIDAY.—Bata's West Hartley 13 9—Buddle's West Hartley 14—Hastling's Hartley 14—New Tanfield 12 6—Ravensworth's West Hartley 13 6—South Peareth 13—Tanfield Moor 13—Tanfield Moor 16 15—South 14 6—South 14 6—South Peareth 13—Tanfield Moor 13—Tanfield Moor 16 15—South 14 6—Northumberland 13 6—Percy 13 6—Eiddell's 14 3—Eden Main 16—Bell 14 9—Eterton 16 6—Lambton 16—Hassel's Hetton 16—Stewart's 15 6—Heugh Hall 14 6—South Hartlepool 16—Whitworth 12 9—Adelaide Tees 15 9—Bishop's Tees 14 6—Denson's 44 6—South Durham 14 6—Tees 16 3—West Cornforth 14 6—West Hetton 14 6—Derwentwater Hartley 14—Hartley 13 6—West Hartley Netherton 14—Sldney's Hartley 14—Whitworth Coke 21—Eigin 14.—Ships af market, 116; sold, 67.

Names of Railways.	Leng	7th.	Present ac-	Price p. share			Return 1 1848
Aberdeen	33	16	1.000.547	18	-	€ 540	-
			1,000,041	204	5*	812	470
Belfast and Ballymena		374	1.088,804		54		412
Birkenhead, Lancashire,& Chesh		10		37		859	674
Bolton, Blackburn, & West Yorksh	14	-	786,384	10.74	-	434	-
Bristol and Exeter		754	2,660,490	60 614	-	4575	10000
Caledonian		141	4,865.135	25	3	5455	3970
Chester and Holyhead		59	3,358,217	15	4	1307	648
Dublin and Drogheda		354	774,875	29	-	782	840
Dublin and Kingstown		74	395,915	-		1121	1118
Dundee, Perth, & Aberdeen June		474	- 544,554	24	64	1103	920
East Anglian (Lynn to Ely)	914	554	1,167,104	2	127	724	512
East Lancashire		24	2,628,519	16	8	2869	990
Eastern Counties and Norfolk		295	12,027,069	81	-	15866	14846
Eastern Union		501	1,712,703	13	-	1220	1108
Edinburgh and Glasgow		524	2,644,378	42	6.7	4068	3525
Edinburgh and Northern		34	2,232,115	124	3	2314	1018
Hasgew, Paisley, and Ayr	1021	74	2,574,330	57	8	3011	2115
Hasgow, Paisley, & Greenock	23	23	848,328	131	2	995	11125
it. Northern & East Lincolnshire	126	-	4,255,171	104 4	54	2282	-
it. Southern & Western, Ireland	1681	1101	3,172,519	301	61	3539	239€
reat Western		2064	11,608,815	78	64	17783	20942
Cendal and Windermere	101	104	174,600	5.00	-	147	162
ancaster and Carlisle		70	1,476,102	48	44	2161	1864
ancashice and Yorkshire		1274	9,218,450	25	ā	11735	9442
iverpool, Crosby, & Southport,		-	84,455	231P-3	Sec.	120	1000
ondon and North Western		428	25,077,942	126	100	44543	42098
ondon and Blackwall	54	4	1,299,675	41	1-12	968	1053
ondon, Brighton, & South Coast	170	1624	6,382,281	364	24	12752	8127
ondon and South-Western	2164	194	7,510,689	344	5	11383	8630
ondonderry and Enniskillen	1144	144	171,026	16	Part I	160	128
Ianchester Sheffield & Lincolnsh.		941	6,048,679	26	8	3640	2571
	471	4234	14,042,340	681	541		21198
lidland Company	50	364		244	41	1154	1051
fidland Great Western (Irish)	37	308	725,332 500,000		6	798	AUGA
		83		13		30:0	2081
orth British	109	80	3,649,055		44		MARK
cottish Central	454	23	1,364,228	24		1347	THE LO
hrewsbury and Chester	48		969,618	14	5	1368	540
outh Devon	57	29	1,909,232	18	6	1739	1568
outh-Eastern	1654	1654	8,116,914	201	54	8068	8422
aff Vale	40	40	879,110	100	74	2164	1512
lster	36	36	723,829	455	200	743	854
Test Cornwall	13	-	-	-	-	1002	1
hitehaven Junction	12	12	150,879	94	3	191	186
ork, Newcastle, & Berwick		2424	6,827,849	201	7	12907	12036
ork and North Midland	255\$	234	4,983,618	31	7	7209	8100
PAR SECTION	PIGS		ILWAYS.		1200		
minus and Daulasma							
miens and Boulogne	764	68	1,462,562	61	28	1173	1272
ieppe	26		DOLLAR SE	278 200	200	469	10-
atch Rhenish	574	874	ALTERNA I	1000	-	1011	956
ontereau and Troyes	718	714	The second second	-	-	656	-
orthern of France	311	311	7,142,890	94	-	12047	10189
rieans to Bourges (Central)	1074	1074	1,229,848	1	Acres	.1980	2050
rleans to Tours	72	72	600,000	32	6	2580	2602
aris and Orieans	82	82	2,011,720	29	84	6703	6987
aris and Rouen	85	85	2,082,916	184	8	5589	8836
ouen and Havre	594	-	2,272,176	91	-	2556	1397

1 1 2 2

Current Prices of Stocks, Shares, & Metals.

STOCK EXCHAI	YGE, Saturday morning Eleven o'clock
Bank Stock, 7 per Cent., 194	Belgian, 4) per Cent., 79
3 per Cont. Reduced Ann., 894 901 4	Dutch, 24 per Cent., 494 1
3 per Cent. Consols Ann., 914 4 4	Brazilian, New, 5 per Cent., 8 77
34 per Cent. Ann., 904 1 4	Chilian, 6 per Cent., 91 8
Long Annuities, 81	Mexican 5 per Cent., 294
India Stock, 101 per Cent., 250	Russian, 5 per Cent., 103
3 per Cent. Consols for Acc. 914 4	Spanish, 5 per Cent, 164 17
Excheq. Bills, 10001. 2d. & 11d. 45 8 pm.	Ditto 3 per Cent., 33

MINES.—The business transacted in the mining share market this week has been very limited indeed, still there are active inquiries for shares in some of our dividend-paying and, improving mines. Several negotiations are consequently going on, which we expect will terminate in satisfactory sales. The dullness in the railway share market may have some elight influence on mining, as on all other speculative property, but we find many sellers in the former to invest in the latter, with the most perfect confidence, especially as regards the satisfactory and stringent manner in which mining accounts are generally kept. West Buller continues to improve, and shares have very considerably advanced, and much inquired for.

West Caradon is reported to have considerably improved, and some important discoveries have been made; shares have, in consequence, been in demand at a considerable advance.

vanced, and much inquired for.

West Caradon is reported to have considerably improved, and some important discoveries have been made; shares have, in consequence, been in demand at a considerable advance.

At Kingsett and Bedford the discovery made last week continues to improve, the lode being represented as 2 feet of solid ore.

At Wheal Calstock a fine course of copper has been discovered; this sett is immediately adjoining Wheal Zion, now about being commenced, and the discovery will no doubt greatly facilitate the formation of the company, and stimulate present operations.

South Friendship Wheal Ann, has improved; a fine course of tin in the 26 fathom level west, and also in the winze east.

Camborne Consols is represented to have considerably improved during the week, and several shares have changed hands in consequence.

Shares in the following mines have changed hands this week—viz.: East Wheal Rose, Devon Great Consols, West Buller, South Wheal Frances, Mary Ann, Herodafoot, Trelaway, Birch Tor, South Tamar, East Tamar, Camborne Consols, Trehane, Tamar Consols, Bedford United, Cwm Erfin, Esgair Lli, South Friendship, &c., &c.

At the Wheal Trehane meeting, the accounts for January and February were audited, showing a balance of 675L 17s. 9d. in favour of the company, with 70 tons of rich silver-lead ore for sale. A dividend of 2L, per share was declared, leaving a credit of 163L 17s. 9d. to next account. Since the last meeting, the lode has been intersected in the 68 fm. level, and they have commenced driving north and south on its course, which is reported to be improving as they progress, as well as the stopes and ends in the other levels.

At the Wheal Tregorden meeting, for receiving the accounts for January and February, the balance sheet presesented showed a debit of 100L to adventurers on the two months' working. A call of 10s, per share was deemed necessary, which, with the rich silver Mining the dividend of 10L, which, added to balance in hand in December, allowed a dividend of 10L, which, a

At the meeting of the General Mining Association a dividend of 11. per share was declared. The company commenced operations in 1825, under a grant from the late Duke of York, for working some coal mines in Nova Scotia. We learn that the negotiations which have been so long pending between his Royal Highness's creditors and the company are likely to be brought to a satisfactory termination.

The meeting of debenture holders of the Company of Copper Miners in England (a full report of which will be found in another column), we regret to say, terminated without coming to any arrangement. There appeared to be an almost unanimous complaint, that the committee appointed in July, 1848, had been very remiss in their duties—in fact, so much so, that the debenture holders had began to think of acting for themselves individually. Various opinions were given by the several speakers of the value of the property, but the general feeling appeared to be, that a committee should be appointed to discuss and prepare an arrangement with the shareholders and the Bank of England. No one, however, was willing to serve on this committee; and, there being so little unanimity, the meeting was forced to adjourn, to give the debenture holders time to consider the report.

In foreign mines business has been equally heavy this week; a few transactions to the contract of the contract of the contract of the contraction of the c

In foreign mines business has been equally heavy this week; a few transactions in St. John del Rey, Imperial Brazilian, United Mexicar, Guadalcanal, Copiapo, and Bolanos, have taken place, but not at improved prices.

Copiapo, and Bolanos, have taken place, but not at improved prices.

We gave last week the report from the Australian Mines to the 9th Feb.; but being pressed for space, were unable to furnish the usual summary. The captain's monthly report is to the 2d February, and advises the appearances of the lode, north and south of Goad's winze, as continuing productive. On Horne's lode the operations have been retarded, in consequence of the increase of water. In Anstey's shaft the ground continues hard—the progress, therefore, slow. In the 40, north of Phillips's winze, the lode had not been taken down in January. The ground in the new shaft, on Baker's lode, is easier for sinking. Cross-cuts are being driven from two winzes to intersect Anstey's lode, at which points a productive lode is anticipated. One hundred tons of copper ore was raised in January, 50 of which will realise 26 per cent., and 50 is expected to be worth 12 to 15 per cent.

Some large nurchases have been effected in the North British Australasian

Some large purchases have been effected in the North British Australasian Company. Since our last notice of this company, we learn that the *Cheapside* has arrived with 83 bales of wool and 100 tons of copper regulus, and the *Isabella Hercus*, with 26 bales, 56 tons of copper ore, and 63 tons of regulus, and that the *Catherine Jamieson* is shortly expected. We find from an assay of a sample of regulus, taken indiscriminately from the pile, that it gives 16 per contpure copper.

The Peninsular and Oriental steamer, Ripon, arrived on Wednesday at outhampton, having on freight 216 packages of specie, valued about 70,000L

MINING IN SOUTH AUSTRALIA.—The following is an extract from a letter received, on Thursday last, from Adelaide:—"I write in haste to inform you the mineral assayers here have discovered that the Burra Burra ore cannot be smelted to advantage by itself; they have, therefore, tried all the other ores, and find Reedy Creek ore the only one that will answer, which does very successfully. This, of course, must considerably increase the price of shares at home, while, even without this, the ore itself is richer than any here, and the deeper they go the finer the quality. I have no doubt but that company's mine will be a first-rate speculation, if the London directors do not meddle or interfere unwisely with their manager here, or enter into foolish speculations.'

MINING IN SPAIN.—From information which we have received, we under-

MINING IN SPAIN.—From information which we have received, we understand that the lead mines of Linares in the province of Jaen, formerly the property of the late Marquis of Remisa, are about to be resussed. The district of Linares has a great celebrity in Spain for the richness of the lead ores it produces; from 1833 until 1843, the year that the mines were abandoned, over 6000 tons of lead were produced. The cause of their abandonment was strike

First five years, they were	rks 300,363-14
Second	
Three last years	626,093-3
Total	1,699,364-1

PRICES OF MINING SHARES.

The little has been a second and the	
BRITISH MINES. Shares. Company. Paid. Price. 1000 Aborgwessin	BRITISH MINES-continued.
Shares. Company. Paid. Price.	
1024 Alfred Consols 88 74	9000 South Tamar 4 4 128 South Caradon 5 40 1190 South Dolcoath 4
1024 AshburtonUnited Mines 81 . 12 1624 Bulleswidden 9 . 18 128 Balneon Consels 424 50	256 South Molton 5 . 17 256 South Toigus 14 . 5; 256 South Trainwny 28 1 2 2000 South Wales Mining Co. 5 1 128 South Wheal Basset 201 300
128 Balneon Consols 424 50	256 South Toigus 14 5:
10000 Banwen Iron Co	2000 South Wales Mining Co. \$ 1
1000 Bawden 1 14 4	128 South Wheal Basset 201 300 124 South Wh. Frances 160 250
4000 Bedford 53 34 4 1244 Birch Tor Tin Mine 9 . 53	256 South Wh. Josiah 3
8000 Biaenavon 50 124 5000 Bitsland Consols 1 6	256 South Wh. Josiah 2. 3
100 Hotalinek	19900 Southern&Western, Irish 2 40 280 Spearne Moor 30 40
120 Brewer	256 St. Austell Consols 9
- Ditto ditto, serip	94 St. Ives Consols 70 128 St. Michael Penkivel 5 10
- Ditto ditto, scrip 10 10 128 Budnick Consols 521 121	
1000 Cailington 20 14 15 16	1000 Stray Park 43 17
20000 Cameron's Steam Coal 7 . 1 2 256 Caradon Copper Mine 94 . 14 256 Caradon Mines 22 . 10	1024 Tavy Consols 6 14
256 Caradon Copper Mine 94. 14	9000 Timeroit 7 1
256 Caradon United 24 5 8	1000 Tin Vale
286 Caradon United 24 5 8 286 Caradon Wh. Hooper 21 44 1000 Cara Brea 15 104 3000 Carthew Consols 14 5	256 Tregordan 2 4
3000 Carn Brea 15 104	206 Trelane
	2000 Month of
500 Comblawn 52 41 128 Comfort 45 .60 65 256 Condurrow 20 90	96 Tresavean 10 120
256 Condurrow 20 90	120 Treviskey and Barrier 130 85
2560 Cook's Kitchen	288 Trevenn 14. 5
1000 Cooper Bettom 14 64	256 Wellington Mines 25 35
212 Craddock Moor 234 5	100 United Mines
500 Culert Mine	256 West Caradon 20 12 512 West Fowey Consols 40 12
1000 Cwm Ernn 3 23	256 West Providence 9 15
	200 West Seton 40 190 2
7100 Derwent	- West of Scotland IronCo. 240. 90 120 West Trethellan 5 . 16
1024 Devon Great Consols 1 200 5 10	256 West United Hills 4
1000 Dhurode	256 West Wh. Friendship. 9 8
2500 Drake Walls 52. 54	1 a725 West Wheat Jewel 12 1 1
3000 Dyingwn 19 194	256 West Wheat Tolgus - 80 - 11 1: 256 West Wheat Treasury 19 42 54
3000 Dyingwm	
	5200 Wicklow Copper 5 74 107 Wheal Adams 79 30
2048 East Crowndale 64 4	1000 Wheal Agar
512 East Combe Silver-Lead 64 64	256 Wheal Albert 10 1 240 Wheal Anderton 254 29
112 East Caracoli 2048 East Crowndale 64 4 512 East Combe Silver-Lead 64 65 128 East Pool 15 . 60 70 9000 East Tamar Consols 4 . 4 4 94 East Wheal Crofty 125 65 70	128 Wheal Ann
94 East Wheal Crofty 125 65 70	512 Wheal Anna Maria 64 . 8
1024 East Wheal Fortune 2 3 128 East Wheal Rose 50 550 600	1024 Wheal Ash
128 East Wheal Rose 50 580 600 — East of Scotland Iron Co. 5 18 123 East Wheal Scton 14 10	256 Wheal Benny 14 2 256 Wheal Blencowe 21 10
1280 Esgair Lli	256 Wheal Bucketts 20 8
248 Eximor Wh. Eliza 6 6 494 Fowey Consols 40 45 1024 Frield Llwydd Mines 1 34 6400 Gadair 2 2	252 W Heat Catstock 9 15
1024 Freidd Llwydd Mines. 14. 34	256 Wheal Courtenay 121
6400 Gadair 2 2	388 Wheat Franco 27 12 1
256 Gonamena	100 Wheal Henry 20 5 112 Wheal Margaret 79 200 512 Wheal Mary Ann 5 19 2
256 Grambler & St. Aubyn 80 12 15 100 Great Consols 1000 120	512 Wheal Mary Ann 5 19 2 208 Wheal Mary Consols. 604. 8
512 Gt. Wh. Rough Tor Con. 184 20 22	- Wheal Penhale 12
2000 Growa Slate Company . 5 5 256 Gwinear Consols 7 1	310 Mucm Linglach 4
6000 Heignston Down Con 12 12	128 Wheal Rose 60 3
	198 Wheal Seton 214 950
220 Herodatory 24 124 125 126 126 127	180 Wheal Sisters 354 5 494 Wheal Sophia 44 5 128 Wheal Spearne 10 75
1000 Holmbush 22 . 10 15	128 Wheal Spearne 10 75
1536 Holne Park 2 5	128 Wheal St. Ann 30 35 550 Wheal Frescoll 7 10 250 Wheal Frelawny 74 75 80
787 Kirkcudbrightshire 84., 3 4	260 Wheal Frelawny 74 75 80
2048 Lamherooe Wh. Maria 71 2 252 Lanarth Consols 4	250 Wheat Frelawny 74 75 80 256 Wh.Tremaine(St.Ervan) 94 24 1024 Wheat Tremayne 94 3 4
128 Lelant Consols 90 40	
160 Levant	1000 Wheal Vincent 2 7 256 Wheal Vlow (Perranz.) 2 4
1600 Llwynmalees 8 8 84	184 Wheal Vyvyan Go
256 Lostwithiel Consols 19 14	250 Wheal Williams 281 8
200 LUSTWILLION COMBOLS 15 14	FOREIGN MINES.
5000 Mendip IIIIIs 3 1 12 1	5000 Alten Mining Company 141 93
128 Metha	15000 Asturian Mining Co 15 . 31 4
1280 Nantycria 4 4	20000 Australian 3 5 10000 Anglo-Mexican Co 100 4
256 New East Crowndale 32 24 100 North Pool 45 . 640	10000 Anglo-Mexican Co100 12374 Ditto Subscription 25 1 6000 Barossa Range 12 12 12
140 North Roskear 54. 150	auto Dolanos 12
140 North Roskear 51 150 262 North Wh. Leisure 14 2 265 North Wheal Basset 10 10 12 15000 Northern Coal Co 23 2	2000 Ditto Scrip 15 24 2 10000 Brazilian Laperial 23 34 4
256 North Wheal Basset 10 16 12	12000 Cobre Copper Co 40 241
128 Par Consols 55\$ 800	10000 Copiapo Mining Co 14 4 4
8000 Pennant & Craigwen 2 21 1024 Penzance Consols 18s 3d 3	10000 Copiapo Mining Co 14 4 4 4 20000 General Mining Ass'n. 20 14 4000 Guadalcanal 5 9 10 5000 Kinzigthal Mining Ass. 2 1 14
512 Plymouth Wh. Yeoland 64 6	5000 Kinzigthal Mining Ass. 2 11
	5051 Mexican Company 591
0000 Rhymney Iron 50 13	2000 Mexican & SouthAmer. 8 1 11 5000 National Brazilian 30 31
0000 Ditto New 7 64	5051 Mexican Company 59½ — 2000 Mexican & SouthAmer. 8 1 1½ 5000 National Brazilian 30 3½ ½ 104000 N. Brit. Australasian 1 55 9d
256 Rosewarva Mines 1 5	7000 Royal Santiago 10 51 11000 St. John del Rey 15111 1 13174 United Mexican Av. 281 21
256 Rosewarva Mines 12 2048 Runnaford Coombe Tin 2 12	13174 United Mexican Av. 281 24
LATEST CURRENT P	

LONDON, JUNE 1, 1849

ENGLISH IRON. a per ton.	Tile£78 10 0
Bar, bolt, & square, London £5 15 0	Old coppers per lb. 7d-84d
Nail rods 6 15 0	FOREIGN COPPER, f
Hoops 7 15 0	South American, in bond
Sheets (singles) 8 15 0	ENGLISH LEAD. 9
Bars, at Cardiff & Newport 4 15-5	Die
Refined metal, Wales* 3 10-15	Plgper ton 16 0 0
Do. anthracite* 3 15 0	Sheet 16 15 0
Pig. No. 1, Wales, cold blast 3 0-4	Red lead 17 10 0
Do. do. hot-blast 2 15-3 2 6	White ditto 22 0 0
	Patent shot 19 10 0
Do., No. 1, Clyde net cash 2 4 6	FOREIGN LEAD, A
Blewitt's Patent Refined Iron	Spanish, in bond 15 0-15 5
for bars, rails, &c., free on 3 15 0 board at Newport*	American ditto
Do., do., for tin-plates, boiler \ 4 10 0	ENGLISH TIN.
plates, &c., ditto 4 10 0	Block per cwt. 3 17 0
Stirling's Patent 7 in Glasgow2 17 6-3 2 6	Bar
Toughened Pigs 5 in Wales 3 10-4	Refined 4 4 0
Staffordshire bars, at the works 6 10	POREIGN TIN &
Pigs, in Staffordshire 3 0-3 5	Banes, in bond 4 3 0
Rails 5 15 0	
Chairs 4 0 0	
FOREIGN IRON. b	Peruvian (6 mo 21 p. ct.,dis.)
Swedish*	TIN-PLATES. I
CCND	IC Coke per box 1 7 0
PSI	IC Charcoal 1 11 6
	IX ditto 1 17 6
Archangel	SPELTER. m
PORKIGN STEEL, C	Plates, warehoused per ton 15-15 5
Swedish keg	Ditto, to arrive
Ditto faggot	zinc. n
	English sheetper ton 24 0 0
ENGLISH COPPER. d	Engual sheetper ton 24 0 0
Shoots shoothing & holts a 1h 0 0 0	

Sheets, sheathing, & bolts, p. lb. 0 0 9
Tough cakeper ton 79 10 0 QUICKSILVER 0 ,.....per lb. 0 3 2 REMARKS.—Though the metal market generally continues in a very dull state, and the businesss transacted during the week past has been small, Welsh bars must be written rather firmer, at 44. 78s. per ton at the port, less 3 per cent. discount the cash, whilst the makers of favourite brands decline orders below 51. per ton. Contrary to general expectation, the decline in the price of Scotch iron appears to have received a check; several sales have taken place at an advance of from 11. 6d. to 2s. per ton upon the late lowest quotations. We quote the price to-day 43s. 6d. to 44s. for mixed Nos., and 44s. 6d. to 45s. for all No. I Gartsherric and Calder, net cash, free on board at Glasgow. English copper has fallen 1d. per 1b., and English tin 41. per ton.

 TO ENGINEERS AND BOILER MAKERS.—The
BIRMINGHAM PATENT IRON TUBE COMPANY
MANUFACTURE PATENT LAF-WELDED IRON TUBES (under Mr. R. Presser's
Patent) for Marine, Locomorive, and all Tubular Boilers. Allo, TUBES for Gas, Steam,
and other purposes. All sorts of IRON GAS FITTINGS.

WORDS—Smethwick, near Birmingham.

LONDON WARRHOUSE—No. 6, Upper Thames-street.

	MISCELLANEOUS				
Shares.	Companies.	Paid.	Div	p. cent.	Price.
0,000	General Steam Navigation	14		100	22
11,600	Peninsular and Oriental Steam	50 .		7	684 68
10,000	Royal Mail Steam	30 .		1	164
10,000	British American Land	354.			14 -
8,915	Canada	324.		6	31
20,000	New Brunswick	75 .			-
8,000	South Australian	25		6	16 .
20,000	Upper Canada	100		5	70
10,000	Mexican and South American	7 .			31 4

FLUCTUATIONS IN THE STOCK AND SHARE MARKET.

27

D	URING	T	HE M	ONT	H OF	MAY			1177		1
Stocks and Shares.	Share		Paid.	P	r. May	1.	Highest.		Lowes	. 1	Present
Consols			total		92	****	924		904		918
Exchequer Bills (June) RAILWAYS.			-	** **	448-47	8	49s pm.	•••	44s pm		45s-48 pm.
Brighton	Stock		£50		£384		£38#		35∰		
Birmingham and Oxford	£20										
Caledonian			50		27				000		
Eastern Counties					81		- 88		71		81
Great Northern	25		20		101		102		10		104
Great Western					90		91		76		78
London and North-Western	a Stock		100		131		132		1234		125
Midland					68	** **	694		631		68
North Staffordshire					131	****	131	••	112		121
South-Eastern			33 2	1	211		. 22		191		204
South-Western					35		35		321		34
York, Newcastle, & Berwic			25		204		21		19		20
York and North Midland	. 50		50	****	35		36		281		304
Boulogne and Amiens	. 20		20		64		84		6		62
Northern of France											
East Indian						****					-
Great Indian Peninsula					1				7		4
In Consols the range has	been or	ly	2 per	cent.	but i	in sha	res the v	ar	iations	hav	e agair
een excessive, and the rem	air bas l	366	n a fui	ther	heavy	denne	eciation i	n s	Ilmost:	alla	legerin

all dyance.—Times.

COPPER ORES

rne, May 31, 1849.

Atines.	Ton			Pric		Mines.	Tons.		-	Pric	e.
	105		E 5		6	Tincroft			€9	11	6
ditto	102		5	6	0	South Wh. Basse	. 85		3	15	0
ditto	99	****	2	13	0	ditto	77		4	11	0
ditto	98		3	4	0	ditto	68		4	16	0
ditto	96	****	4	17	6	ditto	67		10	16	6
East Wh. Crofty		** **	3	18	6	ditto	57	****	3	14	. 0
ditto	78		4	10	6	ditto	4	****	5	0	0
ditto	53		3	6	-0	Fowey Consols	. 92		5	10	6
ditto	48	****	1	15	6	ditto	83		5	5	0
ditto	44		4	16	0	ditto	73		5	2	6
ditto	42		4	0	0	ditto	56		4	13	6
ditto	38	****	0	10	6	Condurrow	. 82		3	4	6
Dudnance	. 61		6	12	6	ditto	65		4	4	6
Longclose		****	4	10	6	ditto	51		3	17	0
Camborne Vean			5	9	6	ditto	40		9	1	6
ditto	71		4	1	0	ditto	18		1	12	6
ditto	65		3	10	6	Wh. Mary	. 98		5	7	0
ditto	60		2	12	6	ditto	62		3	.3	0
ditto	59		3	15	0	ditto	49		6	9	6
ditto	58	** **	1	7	6	East Pool	. 71		4	14	0
ditto	44		3	5	0	ditto	48		i	14	6
Wh. Frances	15		2	16	6	ditto	45		3	5	0
Wh. Seton	103		5	4	6	ditto	40		0	15	6
ditto	101		3	3	6	Dolcoath			4	6	6
ditto	96	** **	3	18	0	ditto	54		4	19	6
ditto	76		5	5	0	ditto	38		9	7	0
ditto	24	** **	2	14	6	South Wh. France			12	18	6
ditto	20		4	11	6	ditto	42		8	0	0
Tincroft	80		3	0	6	ditto	33		6	17	6
ditto	79		2	5	0	ditto	13		6	10	ö
ditto	52		4	4	6	Creeg Braws			6	14	6
ditto	51		4	2	6	ditto	28		2	19	o
ditto	43		5	13	6	ditto	27		9		ŏ
ditto	42			15	6	Wh. Tryphena			8	12	6
31110			*		TA				9		9

			TO	TAI	L P	RODUCE.			
North Pool	500		2180	8	6	Fowey Consols 304	 £1579	19	6
East Wh. Crofty ?						Condurrow 256 Wh. Mary 209	 1127	13	6
Dudnance }	478		1884	3	6	Wh. Mary 209		17	6
Longclose						East Pool 204	 593	15	0
Camborne Vean?	450	****	1587	19	0	Dolcoath 155 South Wh. Frances 150	 630		6
Wh. Frances			1001			South Wh. Frances 150	 1448	14	6
Wh. Seton	420		1789	3	0	Creeg Braws 88	 361	4	6
Tincroft	370		1388	12	6	Wh. Tryphena 6	 51	15	0
South Wh. Basset.	358	****	1951	13	6				7

COMPANIES BY WHOM THE ORES WERE PURCHASED.

water and a few and the second	Tons.	Amount.		
Mines Royal		£889 19	0	
Vivian and Sons		2792 18	0	
Freeman and Co		1415 16	0	
P. Grenfell and Sons		3445 1	6	
Williams's Crown Copper Company	52	436 11	0	
Sims, Willyams, and Co	456	2039 5	6	
Williams, Foster, and Co	1220	6160 4	0	
Schneider and Co	84	432 6	0	

£17,612 1 0 Copper ores for sale on Thursday next, at Andrew's Hotel, Redruith.—Mines and Par-cols.—Carn Brea 884.—Tywarnhayle 420.—Far Consols 896.—Wheal Tremayne 139.—West Wheal Seton 130.—West Wheal Buller 127.—Wellington Mines 106.—Wheal Rodney 89.— Wheal Agar 87.—Charlestown United Mines 70.—South Wheal Fortune 43.—Trenance 16.—Francis's ore 12.—North Godolphin 10.—West Wh.eal Providence 9..—Total, 2608 tons. NO SALE on Thursday week, June 14.

THE STANDARD.—We regret to notice, by the sale on Thursday, that a further de line has taken place—making a fall of 13½, compared with that of two months back.

		Commence of the Commence of th					
			BLACK	TIN		n i	
Mine.		Tons.		Price.		-	Purchasers.
Runnaford C	combe	· · · · 5	t	£47 17	6		Danbuz.
Drake Walls	**********	5		46 0	0		J. H. Euthoven & Co.
ditto	**********	5		36 7	6		
ditto	** ** * * * * * * * * * * * * * * * * *	4	*******	37 2	6		ditto
Charlestown		6		39 10	0		ditto
ditto	** ** ** ** ** **			37 5	0		Bissoe Company.
ditto	** ** * * * * * * * * * * * * * * * * *			26 12	6		ditto
Great Polgoo	th	15	*******	42 0	0		Daubuz.
ditto	** ** ** ** ** **	15	*******	42 0	0		Calenick Smelting Co.
ditto	**********	15	*******	42 0	0		Williams and Co.
ditto	** ** ** ** ** **	15	** ** *. **	42 0	0		J. H. Enthoven & Co.
ditto	******** **	3	** ** ** **	38 0			Bissoe Co.

COPPER ORES

At SWANSEA, for saie June 7.—Cobre 77, ditto 75, ditto 71, ditto 70, ditto 67, ditto 68, ditto 99, ditto 86.—Burra Burra 63, ditto 62, ditto 81, ditto 49, ditto 19, ditto 52, ditto 64, ditto 48, ditto 47, ditto 40.—Berchaven 126, ditto 118, ditto 104.—Burra Burr 70, ditto 66, ditto 40, ditto 16, ditto 62, ditto 63, ditto 63, ditto 64, ditto 64,

MINING APPOINTMENTS FOR JUNE.

- MINING APPOINTMENTS FOR JUNE.

 1. Carn Brea, East Pool, and South Basset pay and setting.

 2. West Jewel pay and setting.

 4. Budnick account.

 5. South Basset account, on the mine.

 6. Devon Consols, and other mines, sampling.

 7. Ticketing at Redrudt, Carn Brea, and other mines.

 8. Stray Park account, on the mine.

 10. Wheal Seton account, on the mine.

 11. Wheal Seton account, on the mine.

 12. Wheal Mary account, on the mine.—United and other mines sampling.

 13. No copper ore ticketing this week.

 14. No copper ore ticketing this week.

 15. Wheal Mary pay day.

 16. Condurrow account, on the mine.

 19. East Pool account, on the mine.

 20. North Roskear, North Pool, and Wheal Seton sampling.

 21. Ticketing at Andraw's Hotel, Redrath, Devon Consols, and other mines.

 23. Wheal Seton pay day.

 36. North Pool account, on the mine.

 27. Carn Brea and other mines sampling.

 28. Ticketing at Farquharson's Hotel, Truro, United, and other mines.

NOTICES TO CORRESPONDENTS.

We must impress upon our correspondents, the necessity of inv us with their names and addresses—not that their communics sequently, be noticed, but as an excuest to us of their good faint

sequently, so notices, but as an armost to us of their good faith.

THE ABERGWESSIN MINES,—Mr. P. P. Couch (the purser), in reply to the assertion of "An Engineer," in his paper on "Ealways and Mines as Invastment," in last week Journal, that Abergwessin shares were at 3.4 cach, writes—"As the purser of the Abergwessin Mines, I feel it my duty to say, that the statement, as far as it refers to those mines, is grossly inaccurate. I believe I am correct in saying, that not a single share in the Abergwessin Mines has been sold up to this moment under par, nor do know of a shareholder disposed to sell at any price. I was instructed, on the 20th of April last, to sell 83 forfsited anners in those mines for the benefit of the general proprietary; and I can only say, that they were all hought by the other shareholders, a several pounds per share above the price quoted by "An Engineer."

IMPROVEMENTS IN THE STEAM-ENGINE.—In our notice of Mr. Petric's apparatus, in last week's Journal, the testimonial we selected should have been printed as "from Messra. Walker, Oldfield-road, Saibrid," instead of "Messra. Walker, Blue Pits, near Rochdale."

J. Bridges (St. Helier's, Jersey).—The project was started in Adelaide. We do not believe shares can be obtained in this country.

conserved in Leconomies — "An Engineer of the Next Generation," referring to his letter inserted in last week's journal, writers:—"Will you allow me to add, at the end of the words "we shall have 40 tons or 50 tons conveyed at a high speed, or double the weight at a modernte speed, a dissance of 10 miles, at a cost for fuel not exceeding the expense of a pound of gun-cotton."

Ingineer "(Brighton).—We would advise you to communicate with C. Manby, Esq. etary to the Institution of Civil Engineers, Great George-street, Westminster.

secretary to the Institution of Civil Engineers, Great George-street, Westminster.

"J. S." (Paddington).—Engraving on steel was first brought into general use about 1818.

The methods adopted are similar to those employed in engraving on copper, differing only so far as is necessary on account of the hardness of the metal.

"Miner" (Redwith).—The office of the Worthing Mining Company is 76, Cornhill. They have not yet commenced any operations on a large scale.

L. M." (Wolverhampton).—The suspension bridge over the Danube, at Pestil, we built under the direction of Mr. W. T. Clark; it cost 550,0001 sterling. The bridghas a clear water-way of 1250 feet, the centre opening being 670 feet. The height the suspension towers from the foundation is 200 feet. The sectional area of the sas pending chains is 520 square in. of wrought-fron, and the weight of the same 1300 tom. A Speculator "(Austinfriars).—The Gundanal Mines, near Seville, were former; the property of a family of the name of Fuchars; they are said at one time to have been so enormously rich, that from the dues alone the palace of the Escurial was built Like (S. Austell). Mr. Lich Tecunery is the superintendent of the two foundars.

J. Luke (St. Austell).—Mr. John Trennery is the superintendent of the fron foundry at Drontheim. A letter addressed him, care of Messrs. Hoe and Co., of that city, will be

T. B." (Cornhill).—The Act of Parliament for building Ramsgate Pier was pas the year 1747.

*C. G." (Madrit).—The price of quicksilver varies from 5s. to 7s. per lb., according to its purity and the supply in the market.

**C. G. "(Madrit).—The price of quicksliver varies from 5s. to 7s. per lb., according to its purity and the supply in the market.

Owen Davis (Swansea).—One of the easiest and most accurate assays for ascertaining the quantity of meta' remaining in the size is by the precipitation of ammonis. A normal assay can be quickly made, and by the intensity of the bine colour, a little practice will enable a careful manipulator to ascertain correctly the per centage of the metal.

E. R. (Albany).—The process of daguerreotyping is thus performed—a silvered copper plate is carefully polished with pumice stone, dilute nitric acid, and cotton, and placed in a box, at the ordinary temperature, over lodine, till the vapours of the lodine have covered it with a yellow film of loidie of silver. It is then placed for some minutes in the carnera obscera, which allows the lluminated picture of an object to fall upon the place. (The light which falls on the plate probably separates loidine from iodide of silver, and sets silver free, chiefly on those parts where its action is most intense). The plate, on which no alteration is perceptible, is now placed in a dark covered box, on an angle of 45% over a vessel containing mercury, which rises in vapour, does not adhere to the portion of the surface covered with undecomposed iodide of silver, but only to the silver which has been set free by the neitos of the light, with which if forms an amalgam in drops about 1-800th millimetre in diameter. Lastly, the plate is immersed in a solution of a hyposulphate of soda, then washed with hot water and dried. In order to obtain more distinct shading, Fizeau spreads upon the plate prepared by Daguerre's method, as olution of 1 part of chloride of gold, and 3 parts of hyposulphate of soda, in 1000 parts of water, and heats it gently for a minute or two. The gold which is precipitated from the silver imparts a deeper black to it; the mercury which combines with it makes the colour darker and more lasting.

Chemicus "(Birmingham).—A alender stic

fine vermillion; attrict well together, and it will dissolve like oil; then cast it into the monild, which is first to be rubbed over with oil. When cool, the figure may be taken and touched over with diluted nitric acid.

*An Engineer" (Liverpool).—The mountain of Swappevars, in Sweden, consists almost entirely of ironstone; but there is no fael in the neighbourhood to render it available. About two years since, the Swedish Government proposed to orect blast-furnaces at Ofosen, in Lofodden, on the Norwegian side, altending in winter to convey the ore there by sledges, and purchase coal in England, to be converted into coke on the spot. The distance from Swappevara to Ofosen is about 50 miles. The workmen were to have been supplied from the convicts. The estimates were, however, so large that, upon mature consideration, the Government desided on abandoning the project.

A. Enquette (Paris).—The process of gliding, metal buttons is as follows:—After the buttons is formed, it is passed, while warm, through a mixture of aquafortis and water, called pickle, and afterwards, when cold, is dipped in a second pickle, composed of mirric acid and water; it is then burnished by the lathe, to render the surface smooth, and close up the pores of the metal, previous to gliding. When thus prepared, a great number of buttons are put into an earthen pan, with the proper quantity of gold to cover them. According to Act of Parliament, 5 grains of gold are allotted for the purpose of gliding 144 buttons, which gives to each a surface equal in thickness to about 107,000th of an inch. The gold is amalgamated with mercury, by holding it over the fire in an trou ladie, until they are perfectly united. This amalgam being put into the pan with the buttons, are stirred up with a brash to all, by its affinity to the copper, carries the smalgam to every part of its surface, covering it with the appearance of silver. When this is perfected, the acid is washed away with clean water; this process is called quicking. The buttons are now put in

saca Whitehouse (Ruttell).—Naphtha is of great use in the manufacture of varnish; is likewise employed for removing spots of grease from woollen and other stuffs; but is almost impossible to destroy the disagreeable odour which it emits.

⁴H. C." (Queen-street.)—There are marble quarries on the island of Bot are worked partially by private individuals, who pay a duty to the Danish

"H. C." (Queen-street.)—There are marble quarries on the Jahad of Bornholm, these are worked partially by private individuals, who pay a duty to the Danish Government." LONDON, INVERSON, AND DUBLIN COAL CONSUMERS' COMPANY."—We're are received a long rambling letter from Mr. Fenton, one of the directors of this omeem, in which we are charged with rendering our columns "the vehicle of unmitigated slander, on grounds perfectly untenable, against an undertaking seeking to effect a greet public good," and as the writer asserts, or believes, "from private motives alone." Our correspondent could surely never have imagined we should insert his verbose communication; but that we may do him and his co-directors fair and ample justice, we will endeavour to put forth the main points embedied in his letter, and, at the same time, endeavour to put forth the main points embedied in his letter, and, at the same time, endeavour to act thin right on one or two polants, where he is evidently in a happy state of blisful ignorance. Our correspondent appears somewhat stang at what he terms our "waspish allack," more especially as we are told that we inserted the advertisement of the company with a "special" paragraph, which will be found to be a mere reference to the advertisement itself. Glad as we are at all times to promote the success of any company, whose object is "to effect a great public good," but we are free to confens we had not read the prospectus with that especial care, which we were induced to give to it subsequently, and which will, we think, be apparent even to the most casual reader, by the introduction of the significant word "perhaps," which, doubliess, will be recognised by those mixed up with the Talacra affair, including its able engineer, who, if we mistake not, has lent his aid, on the present occasion, in the endeavour to establish the London. Liverpool, and Dublin Coal Consumery. Company. We have only to repeat, that the opinion we entertain, and ever have done, is that the Cost-book System applies only to pany, concoted by a party to whom the plan was mentioned in confidence." We can only say, that the prospectus itself formed the grounds of our opinion, and the only data which guided as in arriving at our conclusions, and which are fally confirmed by the opinion expressed in the letter of a valued correspondent, in another column. We are told that the directors are perfectly satisfied with their calculations, which have been raffield by the mean transpectable unions engineers and accountant. We recollect well that one of the most endment mining engineers in the Talacre affair proved himself to be no accountant, or, rather, we ourselves proved the fact. We are not told that "the best coals" can be supplied at 14s. per ton, the only question being whore? We fancy not in London, if the figures addinced by our correspondent, to which we have always referred, are to be taken as correct. We are further informed that the analysis of the coal may be impected. We know that certain (said to be) Talacre coal instead of the coal may be impected. We know that certain (said to be) Talacre coal instead of the coal may be impected. We know that certain (said to be) Talacre coal instead in the coal may be inspected. We know that certain (said to be) Talacre coal instead in the coal may be inspected in the Dublin was found to have been obtained from Mr. Eyton's colliery ellipacent, some two or three nalles: but had our correspondent furnished us with the figures, we should most resultly have put them forward. Mestings are to be hald "arricity according to the Cost. Book System," while we deep the writer to be down strictly its nature, and have again to repeat, that whatever it may be, it does not apply to collierie nature, and have again to repeat, that whatever its my be, it does not apply to collierie nature, we should most required to be added to the control of the collierie in North Weles. The information "that no money whatever is to be paid for the mines" is most assisted by a course of the collierie in North Weles. The in our enumerical to postpone our report of the Above Park Company's ming; also many letters, and " Notices to Correspondents."

THE MINING JOURNAL

Railway and Commercial Sazette.

LONDON, JUNE 2, 1849.

is published at about Eleven o'clock on Saturday

It is a source of much regret, while it is one of the first importance to observe on the fall in the standard of copper, and the price of to observe on the fall in the standard of copper, and the price of black tin—the metal market being, we are sorry to find, on the deciline, which would appear to justify the depreciated price pail by the smelter, who, we well know, is not unwilling to avail himself of any excuse whereby he may reap his profit—the interests or position of the miner being one of secondary consideration. We believe that we are not far wrong, when we state that the fall in black tin is 10l. to 12l. per ton, or at the rate of 20 to 25 per cent. on its value—a decline of 3l. having taken place last week, in addition to those antecedent, and a further drop of 4l. this week. The effect will, we fear, be serious; but it is to be hoped that it is only momentary. The periodical sale of Banca tin may account for this in a great cedent, and a further drop of 4th this week. The effect will, we fear, be serious; but it is to be hoped that it is only momentary. The periodical sale of Banca tin may account for this in a great measure; and, so soon as the smelters and others have made their purchases at a low figure, it is to be hoped that the trade will recover itself. It is, however, hard upon the young adventurer, who possesses but little capital, and compelled to sell his ore, that he should thus minister to the profits of the smelter; while it is hardly necessary to say, those who can hold over their tin will doubtless benefit, although the delay may subject them to some slight inconvenience. Tin, however, is not the only metal which is deteriorated in value in the market; the standard of copper has fallen 10 per cent.; and when it is considered that one-tenth of the value of copper ore is taken off—or upon the returns of Cornwall and Devon, say 80,000.1 a year—we can very well imagine what will be the direful effects on those mines which are either not paying dividends, or are merely meeting their cost. The annual produce of our mines of Cornwall and Devon we will take at 800,000.1, one-tenth, then, will be the sum we have named, and when, with certain exceptions, that we find they are not "passing rich," it may be very well imagined what the result must be, if a change does not take place.

On the present occasion we shall not take our ordinary course, that of charging the smelter with lowering the standard, so as to benefit himself at the cost of the miner; not but what he is quite equal to it, but we find there is a drop of 1d, per 1b. on sheet copper, and, consequently, the stocks are depreciated full one-tenth in value. We do not profess to know anything of the profits of the smelters; however, one matter is, we believe, pretty clear—the reduction must affect, and that very considerably, the value of stock they may have on hand, which we are given to understand is very heavy; while the demand, arising, in a great measure, from th

imports of foreign and slave copper ore, or to what cause is it attributable? It is a highly important question as relates to a population of nearly half a million, and must not be disregarded.

At the present period, when our Legislators appear to be at a loss where to send those who for their crimes are deemed by our laws to be unworthy of abiding longer in this country, and our colonies objecting to become the recipients of these outcasts of society, we consider it our duty to suggest the adoption of measures, which we deem, if carried into effect, a vast portion of valuable labour may become available, and thereby a greating rapital afforded from we deem, if carried into effect, a vast portion of valuable labour may become available, and thereby a creative capital afforded from a source that would otherwise be attended with a positive loss. Our prisons are filled with able-bodied men, and the penitentiaries with juvenile convicts, whose subverted minds, and early neglected habits, may, by a well-directed system of discipline and instruction, be yet rendered useful to themselves, and the country whose laws they have violated. The intention of our criminal laws is not limited to the remishment for the officers, but that the numberson laws they have violated. The intention of our criminal laws is not limited to the punishment for the offence; but that the punishment inflicted may have the tendency of preventing a repetition of the crime, or offence, for which the guilty suffer. If such be admitted, we consider that the offender should be precluded as much as possible from communicating with greater or less adepts in crime than himself; for experience has taught us, when opportunities are afforded by the body and mind be kept in habitual exercise—reciprocal communications are made, and a greater degree of knowledge obtained, by which a criminal returns to society, after the term of imprisonment expires, better prepared for depredation than when he first entered within the walls of a gnol. To effect that great moral change to which our present efforts are aiming, as well as to institute the means by which convict labour may be rendered a source of benefit—may, profit—to the Government, we consider that the Crown lands of the British empire, which at present are of ittle or no assistance to the country, can be made ultimately a medium of vast importance and wealth.

little or no assistance to the country, can be made ultimately a medium of vast importance and wealth.

On submisting our views, we would draw attention first to the Duchy lands of Dartmoor, in the country of Devon. This great extent of moor land contains a large portion of land fully susceptible of cultivation and planting; whilst the whole district is well known to contain productive lodes of tin, copper, lead, and iron. We select Dartmoor for the scene of our first casay towards the accomplishment of the object—not from its general character of sterility of soil, but in consequence of the creation already of a place of confinement for the convicts, which would otherwise be deemed an obstacle to the furtherance of the suggested scheme, on the ground of immediate finances for a suitable bailding.

In 1806 the foundation of a prison was laid (which was completed at an expense of 127,000l.), as a place of confinement for prisoners during the late wars with France and other nations, capable of containing upwards of 30 acres of ground, be calculated for the confinement of prisoners of war, it cannot be less adapted for prisoners for effice, occupying upwards of 30 acres of ground, be calculated for the confinement of prisoners of war, it cannot be less adapted for prisoners for effice. Moreover, it was intended at one time to occupy the prison with convicts, for the cultivation of the moor, and in 1820 there was a proposition made to establish a school of industry: the children were to be orphans rescued Moreover, it was intended at one time to occupy the prison with convicts, for the cultivation of the moor, and in 1826 there was a proposition made to establish a school of industry; the children were to be orphans rescued from the vice, infamy, and ruix of the metropolitan streets; and the present Lord Brougham, at a public meeting stated, at the desire of his Majesty Gronge IV., a donation of 1000\(lb \), and the offer to grant a part of the waste towards that object. Taking it for granted that the building is calculated for the purpose, we will glance at the nature of the employment that would be allotted to the labourers, and the advantages that will result from the labour. Our chief argument asserts that a creatize capital may be realised from the labour of convicts—that is, a self-supporting and profitable return from a channel that would otherwise become a positive loss, and bringing into a profitable or productive position that which remains dormant. In effecting this great desideratum, we would recommend that Dartmoor Prison shall become the establishment of a large portion of our convicts; and that they shall be employed in opening and developing the numerous menthiferous locks of tim, copper, lead, &c., with which Dartmoor is known to abound. Without referring to ancient records, or going into statistical datail, we will merely refer to the historic tradition that the Phonicians traded to Plymouth for the tin raised on Dartmoor, which may be deemed correct, that ancient mining was carried on there to a great extent, from the fact that the lodes can be traced for miles continuously, in accordance with the ancient mining was carried on the continuously, in accordance with the ancient mining was carried on the extend of the lodes; and as a further corroboration of the existence of

minerals, almost every mine that has been, and is being, worked to any depth proves a rich or productive mine.

It may be observed that every convicted person may not be made a good practical miners but, in the various operations connected with mining, there is ample surface work necessary for both adults and children, and we have found abour for others in opening and working in the quarries of granite, which is of a very superior kind (in evidence of which we have only to point at Waterloo-bridge, and other metropolitan buildings), which the Government works requiring this article could be supplied themfrom. And, without reflecting on the opinions of others, we venture to propose a question by asking—How more national would the new British Houses of Parliament appear, if built of granite wrought from the Crown lands, by criminals who have broken the very laws made or amended within the walls raised by their labour?

And, again, another class should be employed in the cultivation of all the available, or such parts of the moor most capable of improvement, either by cropping until fit for permanent pasture, draining and enclosing, or by plauting such forest trees that would thrive and stand the altitude of a Devoning much forest trees that would thrive and stand the altitude of a Devoning mother than a precincular progresses, and that larch and fir will grow on Devon's green hills as on the mountains of Athol.

We cannot refrain from expressing our regret that so little encouragement is afforded to the mining interest by the Government. Now that this great interest of the British empire is become one of its most important pursuits, and adding so much to our national and commercial wealth, which is chiefly carried on by private enterprise, a stigma rests upon any Government that will exact from private speculation one-tenth of the produce raised by their capital and exercise, as senforced by the Commissioners of Woods and Forests from mineral grants of the Crown lands in Wales.

We have observed that the great ob

precluded from emigrating to the fartile soil and blue akles of our happy and prosperous colonies, the negroes of Africa are protected by a British fleet, and our convicted criminals sont to a "land of milk and honey."

It is to be regretted that a company like that of the Missas. Coxraxx, formed with the object as put forward, and which we helieve most of the projectors had at heart, that of the protection of the interests of the miner—should have failen from its high position, but which we think is well accounted for, from the want of principle on the part of those on whom the management devolved. In the first instance, the capitalist and miner were to join, so as to destroy the influence and power of the smelter, as being highly prejudicial to the one and other. But what is the result? The company coalesce with the smelters, and, in the end, the V.'s and W.'s. as practical men, laugh in their sleeve, and profit by the game. The case before us may be stated in a few words. Upwards of half a million has been advanced; 270,000. is due to the Bank of England, and if we are to believe the representations made by Mr. Alderman Candan, the worthy alderman, albeit that he understands the value to be attached to matters in the Stock Exchange, is not quite so much as fait as regards smelling-works, whether as regards copper or iron; indeed, we never met with any gentleman who evinced so total a want of information. It is said that "a little knowledge is a dangerous thing," but in this instance we believe the worthy alderman possesses no knowledge of the subject, and hence it might be assumed he could do no damage. This, however, must not be taken for granted.

The position in which the company is placed is one of a peculiar nature, and we can well understand that cases may be dawn, opinion obtained, and decisions arrived at by a meeting of shareholders; while the real facts are, if not concealed, at least so misunderstood, or misropresented, as to preclude that justice being acquired by the share or debonture holder to

which is the full amount of their chim.

A report of the proceedings of the debenture-holders appears in another column, and a further meeting will be held at an early period—that is, it that there is anything like unanimity; but we fear that the case is that of a "house divided against itself," and that the only result likely to be arrived at is, that of the adoption of Mr. Alderman Canders's suggestion, which, we think, was certainly most business-like. Let the Bank take proceedings, let the company become subject to the bankrupt haw, have a regular wind-up, bny in the works—or, rather, let some independent parties purchase them, make terms for transfer of the charter, and begin de nozo. This, we think, is sober advice; why should not the proposed new Smelting Company avail themselves of the opportunity of acquiring works, for a nominal consideration in one sense, and they will secure a zealous and active co-operation on the part of many of the debeuture and shareholders? We merely throw this out as a limit.

We insert, in another column, a communication by a correspondent, containing an account of the last experiment of the electric light by Mr. Statts. We give it in the original terms, because it comprises some particulars which could not be stated as the result of our own observation. However satisfied, as favouring this new source of artificial light, with the performance of Mr. Statts on

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The letter of a correspondent, on the subject of "stamps being requisite on the transfer of shares in mine adventures," which appeared last week, we allowed at the moment to pass by unnoticed, having little to observe beyond the remarks in the Journal immediately preceding; but, as it would appear, a certain purser in the west, with our correspondent, "W. H. G.," feel some alarm on the subject, and as such may possibly be increased, and the atom of snow by rolling may become a ball or mass, which may not be so easily dissolved or removed as if taken in its earlier stages, we resume the subject with the view, in furtherance of the remarks already made, to show the absurdity of the opinions advanced by our correspondent; and the objections raised by those who, now in authority, never doubted the matter before, when that as miner, agent, or adventurer, they transferred their shares, and benefitted by a shut underground, or a start at surface.

Let us just coolly take the matter as it stands, and although we think it were wise not to raise the question, or to direct attention to a subject which may in the end only create disunion, without benefitting any one party, except the lawyers—and, goodness knows, we would most certainly use our namest endeavours to exempt them from any monies, arising either from the produce of the mines or the pockets of adventurers—yet it is well at once to remove the alarm which might exist on the part of these unacquainted, or partially so, with the Cost-book System as to the liabilities, and, we should add, penalties which they would incur, if that our correspondent be correct. We are told that the question is "a legal one;"—undoubteilly, all questions are legal, and must be so construed; but we would observe that, while there are laws, there are also customs which become laws, and hence the principle observed in the specification is "a legal one;"—undoubteilly, all questions are legal, and must be so construed; but we would observe that, while there are laws, there are also customs wh

The studies but, we cannot be conduce never, that the moreae of early experiments (advantageing third of Mal. Mallon, on the 17th Age at the Surrey Gereion), in the wave of read-ring the great economic deal. The plaif, on this consider, we prepetably worse to reside the translate of again, the agreement shape, by we the conduction of the control of

introducing reference to a number of legal decisions bearing thereon.

HRON, HARDWARE, & METAL TRADES' PENSION SOCIETY.

A general meeting of this society was held at the London Tavern, on Monday, the 28th May, for the election of six additional pensioners, and other business,—the proceedings of which will be found in our advertising columns.

T. B. SERIEVARY, in moving the first resolution, remarked that, in having to propose only one gentleman on that occasion, as a vice-president, the present meeting contrasted unfavourably with that in May, 1848. After the anniversary festival of that year, presided over by the late Lord Mayor, the society is had the honour of electing no less than eight gentlemen to that distinction, in virtue of donations of not less than 20 gaincas each. How far the difference in this respect was attributable to the untoward circumstances which deprived the society of the promised presidency and advocacy of the present Lord Mayor, it was not easy to affirm with precision; but the talont and general meeting covariaced by his lordship in presiding over the anniversaries of many other kindred institutions, and the influence of his eloquence and liberality on similar occasions, night convince every one that, had his lordship inc been prevented by circumstances he could not control from fulfilling his engagement to the society, his advocacy of the claims of this society would have been extremely beneficial to its funds. Nowithstanding this great disappointment, however, he considered there was ciase for congratulation in the increase of its members within the current year. The appendix to the report, now preparing for the press, would contain more than 200 names of new subsaribora, or donors; and this growing seal of the friends of the institution afforded well-grounded hopes that the pressure year, a midst allied discourage menta-arising from the continued depression of trade, will compare very favourable and the pressure of the society sealed to the pressure of the society sealed when the p

IMPIOUS PRACTICES OF THE LATTER-DAY SAINTS.

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An inquest was held at the Black Lien Inn, Aberdare, on the body of John Pugh, collier, also a preacher in connection with the Latter-day Saints. In the late explosion at
the Wyrfa Colliery, the deceased was much burnt, but persisted in refusing surgical aid,
allaging that his "failth" was sufficient. The following is an outline of the proceedings:
—George Rosser proved, that on the day the explosion occurred, he and the deceased were
in the Wyrfa Colliery; and in his absence deceased went with a naked lighted candle into
the part where he had been told not to go. Immediately an explosion took place. He
and deceased were much burnt. Deceased was subsequently seen by witness, but positively refused to have a surgeon's services, preferring the aid of one James Jones, alias
"Jun Pontypool,"—Eleanor Pugh, widow of deceased, said that James Jones dressed his
burns daily. Mr. Evans, surgeon, offered his services; but deceased declined them, saying that if his faith should prove too weak to enable him to be cured, then he would call
in Mr. Evans. He was then quite same. On a subsequent occasion Mr. Evans declined
giving witness any oil for her insband's barns, unless she would discaved all the "saints."
Mr. Sims, an idday, administered the ordinances of the "clurch" to deceased as soon as
he was brought home af-er-sustaining the injury. A flask of the "blessed oil" was brought
—a stilling's worth—with which deceased was anonined; after which Mr. Sims placed his
hands on deceased, and prayed. "If my husband's faith had been strong enough (enid
witness) he would have been entred instantly."—Jas. Jones, alia: "Min Pontpool," was hands on deceased, and prayed. "If my husband faith had been strong enough (said witness) he would have been cured instantly."—Jas. Jones, allas "Jim Fontypool," was called. He informed the court that he was a "asin!". According to the sain's-regod, their members should rely on the ordinances of the "church" for cure in all cases. Had it not been for the weakness of deceased's faith he would have been cured immediately!—William Sims, a "saint" and an "elder," attributed deceased's death to "want of faith." Witness then added—"I most selemnty declare that if all the fiesh was burnt off my hand this moment, that my blessings would cure if at once!!! Had John Pugli's faith been good, it would have cured him." Jr. Evans, surgeon, proved that his services were delined—deceased preferred relying on the ordinances of the church. Deceased might have recovered if the proper remadels had been applied to his wounds.—The jury returned the following verdict: "That John Pugh died from the effects of an explosion of fire-damp at Wyrfs Collery, May 8th, and the culpable neglect of his attendants, who were members of a certain society, called the "Latter day Saims," in refusing to permit a medical gentlement of three delinded people, and cautioned them not to repeat their foolish practices.—The comments of them for manulaughter.

LARGE WHERE.—Ou Sunday an immense wheel, 18 feet in diameter, and weighing about 10 tons, was conveyed from Manchester to Liverpool along the Manchester and Liverpool line of railway. The wheel is to be used at the Victoria Tunnel, Edgehill, Liverpool. This penderous piece of, mechanism was obliged to be conveyed on Sunday, as it could only be taken when all other traffic was stopped, its great wisth necessitating the use of the two lines of railway.—Manchester Courier.

THE NEW SPANISH TARIFF.

It is with great pleasure we have to announce that the long looked-for new Spanish tariff, which has been completely revised, passed through the Cortes

THE NEW SPANISH TARIFF.

It is with great pleasure we have to announce that the long looked-for new Spanish tariff, which has been completely revised, passed through the Cortex without dissent on the 19th May, and received the Queen's signature on the 20th at the Royal Palace of Aranjeus, countersigned by the Ministers of Finance and Comesters. The prohibitory duties which have so long existed in Spain against the introduction of foreign machinery, have had the most baneful effects in preventing the development of her mineral resources and mining esterpties by British and other adventurers. Railways would have been for sometime established from Madrid to Pampeluan, Vittora, Corunas, Vigo, and San Substatian in the north, Catin, Sewile, Malaga, Valencia, and Barcelona's in the south, running strough the principal in facilities to mining speculations, and the general infonity of the country, had if not been for the exclusion in the south, running strough the principal in facilities to mining speculations, and the general infonity of the country, had if not been for the exclusive tariff duties on foreign locomotives, rails, alexpers, and all the requisite materiel. We are glad to see that the Government has at last come to the determination of causing a new era in the scientific, as well as commercial, advancement of a country which offers so many resources to national exterprise and that of foreigners; but which, in consequence of years of political troubles and oppressive laws, has falles, or degenerated, as as hardly to be closed among the free nations of Europe. Spain, once so powerful, possessing as she did the vast riches of Mexico, Galifornia, Pera, one wo powerful, possessing as she did the vast riches of Mexico, Galifornia, Pera, now to deap dupon her own industry and control of the property of the country to the fall of the property of the country to the fall of the property of

therities, the above being at present only the resumé.]

Contract for Coals.—The deliveries of coal for the use of Goverament ateamers in the Mediterranean during the present month will be very large. A portion of the contract entered into on the 22d April, for 1200 tons.—2000 at Gibraltar and 1000 at Malta—are to be delivered in the course of the next fort, night, and the remainder by equal portions in July and August. Also those for supplying Her Majesty's dockyards, Admiralty, Marine offices, &c.

Ordance to furnish, from 1st July to 30th June, 1830, the barrack and ordnance stations in Great Britain and the Channel Islands with coals, must send in their tenders by Wednesday, the 6th inst.—952 tons of Pontop coals, to be delivered at Gibralter, for the Ordnance—viz., one-third by the 30 inst., one-third by the 31st July, and the remainder by the 31st August.

British Coals for the Fernch Post-Office Stramers.—The following quantities of English coal for the use of the French post-office steamers are to be delivered at the undermentioned packet stations during the month:—Calais, 250,000 kilos.; Marsailles, 1,400,000; Ajaccio, 150,000; Bastia, 150,000; Malta, 1,400,000; Constantinople, 300,000; and Alexyndria, in Egypt, 600,000—total, 4,250,000 kilos. The above deliveres will give some business to British ship-owners in the colliery trade.

Contract for Minneal black for paint. A sample of the article, and form of tender may be seen at the office, Somerset-house. The quantity required is rather considerable, and is an important contract.

MODUM COBALT-WORKS.—We have been informed that a company is now forming, in Christiania, to purchase these mines, advertised for sale on the 20th of June. It is supposed that they will embark in the undertaking under the auspices of the Norwegian Government. We are not aware of the amount of capital to be subscribed, but we hear that the shareholders are inclined to bid as much as \$100,000, if the works are not sold at a lower figure.

Beauffort flow-Works.—The following resolution was unanimously agreed to at a public open-air meeting of the workmen of Beaufort, Monmouthshire:—"We, the miners, colliers, and workmen in general, tender to H. Bailey, Esq., proprietor of Beaufort Iron-Works, our warmest and unequivocal thanks for the spirit of sympathy he has so leadibly displayed in giving us an advance of 2s. in 14, in this the time of the working manisdistress, and that when other ironmasters have refrained from so doing; and we pray him to continue thus to sympathise, and we will endeavour to act towards him so as to give general satisfaction."

satisfaction."

BURRY PORT COPPER WORKS, CARMARTHENSHIRE.—The proprietors of these works, Mesers. Mason and Elkington, electro-plate manufaturers, of Birmingham, have commenced erecting their buildings, and it may be expected, from the expeditious manner in which they are proceeding, they will be able to commence smelting copper, on a new principle, for which they have a patent, in the short space of six months. There are upwards of 100 men employed on the works.—Swansea Herald.

NAIL-MAKING.—Mr. Moses Poole has obtained a patent for some improvements in machinery for making nails. The metal is passed between the edges ments in machinery for making nais. The metal is passed between the edges of a top and bottom roller, to split it into rods of the requisite thickness, which are then passed between the edge of a second top roller and the other edge of the bottom roller, whereby they are formed into a succession of rectangular triangles. These triangular-shaped rods are then forced between a pair or vertical or horizontal matrices, to point them, and likewise a pair of enters to separate them, and absequently through a punching machine, by which the head are formed. Claims.—The mode of arranging machinery for making nailrods, by first splitting the metal, and then shaping it. Making mails by means of the matrices in combination with the heading machine. The application of the machine last described.

Proper parks Werentung Macripus —These machines, which are an improve-

the machine last described.

POUPARD'S WEIGHING MACHINES.—These machines, which are an improvement on the weighing machines at present generally used, are particularly nest, durable, and accurate—one of which, we understand, has weighed the amount of 30,800 tens without requiring any repairs, and is still in daily use. There are two descriptions, the impecial and the dwarf standards; the advantage in the impecial is having an upright brass or malogany pillar, with standard working in it. By the removal of two small weights on the index, the required weight is immediately given, while, at the same time, the height may be taken. The dwarf machine is of a tenth power, and equally durable; some of them, we believe, are in use at the Hospital for Consemption and the Duke of Tork's School, &c. They are, we believe, invented with a view toffeir adoption by insurance companies and public establishments. Several entirest members of the medical profession have reported favourably on their merits.

On Solb, and Solb Mines.

No. I.-GENERAL DESCRIPTION OF GOLD

This metal has been known from the earliest times, and, in cons of its many valuable properties, has been held by the rudest, and by the most polished ages, in the highest estimation. It is the only metal of a yellow colour. There are, however, alloys of copper, and also some minerals—copper pyrites, iron pyrites, and yellow mica—which resemble gold

yellow colour. There are, however, alloys of copper, and also some minerals—copper pyrites, iron pyrites, and yellow mica—which resemble gold in colour; but their presence at all times is easily detected by chemical tests. The most prominent of the valuable properties which gold possesses are —1. It is not tarnished by the action of air, coal-gas, water, or the common acids, being far superior in this respect to silver, which soon tarnishes either by the sulphurieted hydrogen existing in the air, or in that of unburnt coal-gas, and also by the sulphuric acid of its combustion; hence gold or gilt plate wears much longer than silver or silvered plate—a consequence of gold or gilt plate not requiring a tithe of the polishing which silver demands.—2. It exceeds all other bodies in malleability; an onnec troy, which should contain 6 grs. of alloy of copper or silver, is daily converted by the goldbeaters into 1000 leaves, or 40 books of 25 leaves, each being 11 square inches; besides obtaining the above quantity of perfect leaves, there are usually about half-an-ounce of cuttings. It has been ascertained that gold can be beaten to the **\frac{47}{476}*** to fan inch in thickness, 1 grain being, therefore, extended to 100 square inches; it is then so thin as to be transparent to the eye, yielding to it a green colour, which is also true when gold forms a thin coating on glass on being precipitated from some of its solutions.—3. Its ductility is such that one grain can be drawn to 506 feet, so that its diameter is only **\frac{1}{247}*** to fan inch, which is sufficiently small for astronomical purposes; but most of the so-called gold wire is merely silver gilt, and, when used for lace and embroidery, is seldom finer than the **\frac{1}{247}** to fan inch in thickness.—4. It excels all other bodies in conducting heat; for if gold be estimated at 100, iron is but 37, lead only 18, and porcelain 1.

The above-described properties of gold, joined to its scarcity in the dark ages, were the chief causes which stimulated a

amalgamation-works, is four times as great, being due principally to che mical action—the silver ores being generally compounds of sulphur an chlorine, while those of gold are almost invariably alloys, and hence with them the loss is chiefly mechanical.

amalgamation-works, is four times as great, being due principally to chemical action—the silver ores being generally compounds of sulphur and chlorine, while those of gold are almost invariably alloys, and hence with them the loss is chiefly mechanical.

In the mative state gold is never found oxidated, or combined with sulphur, like silver, copper, and iron, and, consequently, wherever found, it has always a metallic lustre; it rarely occurs absolutely pure, and is, therefore, generally found as an alloy. The purest specimens have been discovered in local detritus, or gold sand, but even there it is often very impure. Some specimens obtained from sand, and from mines 400 or 500 feet deep, are so unlike gold as to possess a black colour (the auro preto of the Portuguese), these contain but 9 per cent. of gold united with other metals, principally tellurium; other specimens are of a white colour (ouro branco of the Portuguese), and contain about 30 per cent. of gold, combined with silver and palladium.

The metals found most frequently in native gold are silver, copper, and palladium. Gold is generally found in dust, grains, or flakes; sometimes in crystals, more or less perfect. It is now obtained in greatest quantity in Russia and in Upper California; the former country last year probably produced 4,100,000/, and the latter about half a million sterling; but as the discovery was only made in California the same year, the produce this year is likely to be vastly augmented. Of late years, great masses of gold have been found and recorded in different countries. One of the largest was discovered only 9 ft. beneath the surface of the ground, in the Ural Mountains of Russia, on the 7th Nov., 1842; this mass weighed 96½ lbs. troy, and was, therefore, supposing it to contain 8:33 per cent. of alloy, which is the amount in our gold coin, of the value of 45081. 9s. The next largest on record weighed 37 lbs. troy, and was picked up at Haiti, in 1502. A mass was found in 1821 in the United States, which weighed 33 lbs. A

voirdupois, without breaking.

The salts of this metal are fully as poisonous as the same compounds

of silver.

Pure gold is soft, and not much harder than lead; so that coins made of it wear a great deal faster than when alloyed with copper or silver—hence the utility of these metals in coin.

The gold coins of France and the United States now contain 10 per cent. of alloy; while those of this country, since 1604, only contain 8.33 per cent. The relative value to silver at present in this country is as 15.98 to 1; but owing to recent great discoveries, and also to political causes in the cast of Europe, it is likely to fall greatly in value. The malleability and ductility of this metal are much impaired by antimony, lead, bismuth, and arsenic. Thus both properties are almost completely destroyed when gold is alloyed with \(\text{The malleability}\) and arsenic. Thus both properties are almost completely destroyed when gold is alloyed with \(\text{The malleability}\) and arsenic. Thus both properties are almost completely destroyed when gold is alloyed with \(\text{The malleability}\) as a ware of this fact, he must have taxed the gold-smith who made Hiero's crown with greater fraud than he perpetrated upon the King of Syracuse. There can be no doubt that when gold becomes more abundant very important improvements will be introduced into the arts, more particularly in all that relates to alloys, our knowledge of which being singularly defective.

Gold and copper melt at nearly the same heat; both are fused at 100000 (Cantiented exposed).

being singularly detective.

Gold and copper melt at nearly the same heat; both are fused at 1102.2° Centigrade, or 2016° of Fahrenheit's thermometer; while silver melts at 143° less of Fahrenheit.

The best solvents of gold are—mercury, and a mixture of nitric and muriatic acids, aqua regia. The former yields a product termed an amal-

gam, which, on being passed through leather, to free it of excess of mercury, leaves a white mortary-looking substance, containing 33:3 per cent. of gold and 66:6 per cent. of mercury. But the usual solvent of chemists is the aqua regia; the active ingredients of this compound acid are chlorine and a gas lately discovered by Dr. E. Davy, and called by him the chloronitrous. From numerous experiments of my own regarding this compound acid, I am led to believe that the chloro-nitrous gas, as well as chlorine, dissolves gold.

nitrous. From numerous experiments of my own regarding this compound acid, I am led to believe that the chloro-nitrous gas, as well as chlorine, dissolves gold.

I find that chlorine combines with gold at a high as well as at a low temperature, so that the proposition made in 1841, and published in the Transactions of the Society of Arts, to assay alloys of gold by passing a current of chlorine would only combine with the other metals at that heat, is not founded on accurate data. I found, on repeated experiments, that pure gold itself lost 4 per cent. of its weight on passing a current of chlorine over it, at a red heat, a loss much too great in such a simple matter as an assay of gold. It has, indeed, been long suspected by chemists that a portion of gold is volatilized as chloride, when its chloride is submitted to heat; the result of the experiments just related go far to confirm the fact. Bromine and fluorine act readily upon gold. Though by far the greater part of the gold consumed in the arts, still retains its characteristic yellow colour, unlike copper and zine in this respect, yet a rapidly increasing quantity of gold is used in the art of colouring glass, in which its colour is changed to a deep red. As "purple of Cassius" (oxide of gold and oxide of tin) it has been used in this way, for about 200 years, but of late it has been discovered that the simple solution of the metal in aqua regia equally imparts to glass the superb ruby colour.

The combining equivalent is 1992, and the symbol used by modern chemists to prevent circumlocution, au from the Latin aurum. The alchemists used to designate it Sol, and also by ©

[To be continued in next week's Journal.]

ON PYROGEN.-No. VII.

BY JOHN JOSEPH LAKE, ROYAL LABORATORY, GOSPORT.

At the conclusion of my last paper, I made the remark that "it might be tance that retains pyrogen about it, like imoure iron, nickel, and cobalt;" I would here beg to state, that I do not con ider such to be the case, but that it forms a part of its substance.

I will now attempt briefly to illustrate the nature of magnetic iron, nickel I will now attempt briefly to illustrate the nature of magnetic iron, nickel, and cobalt in my theory. Pure iron, nickel, and cobalt cannot be rendered permanently magnetic any more than copper; it is only when they are mixed with other substances that they acquire this property. Thus leadstone, the black or magnetic oxide of iron, is magnetic. Steel also, or iron with carbon, may become magnetic; the greatest difficulty being to keep them free from the acquisition of magnetie properties. Iron not containing carbon, but mixed with manganese and sulphur, may also become magnetic; but neither oxygen, carbon, manganese, or sulphur, any more than pure iron, nickel, and cobalt, acquire magnetism in an isolated and undisturbed state. The natural conclusion to which this leads us is, that although pyrogen has no particular attraction for these substances in a separate state, yet it has a strong attraction for some of their compounds, and it is probable that it is not merely retained in these compounds by attraction on a principle analogous to the water of crystallization of salts, or hydrates, but that it actually enters into the formation of some; for instance, the magnetic oxide of iron. It would seem, as regards ordinary or impure iron, that the fluid is attached to it in the former way, or in a manner analogous to a solution, for it is only after a lapse of some time of exposure to a magnet that steel developes magnetic properties; but then it retains it more tenaciously than other iron. This would seem to arise from its closer texture, on account of which pyrogen finds greater difficulty, both in obtaining ingress to, and egress from, its pores. This view of the subject is confirmed by the fact that the peculiar properties of a magnet may be destroyed by hammering, or falls—a result that is much accelerated by administering the blows to it so as to produce a ringing sound. Nitric acid affords a remarkable parallel case in respect to water. Nitrogen and oxygen in an uncombined state; but when they combine to form and cobalt in my theory. Pure iron, nickel, and cobalt cannot be rendered

of hydrate), perities of iron, nickel, and cobalt—a condition indicated by their magnetic properties.

Iron in this state has been found to possess a peculiar chemical property—viz.: that of retarding the process of oxidation—a fact first observed, I believe, on railroads, the rails in use being found to corrode more slowly than others equally exposed to the weather. This preservation from corrosion has been attributed to the magnetism which all rails of the kind that are laid down more or less acquire. The following is a very simple explanation of the cause of this—The magnetic properties denote the presence of currents of fluid revolving about the rails, which prevents the approach of extraneous fluid by the property of repulsion existing between its particles, already illustrated in these papers; and on Mr. Gann's and my theory of ozone, detailed in the last paper on this subject, the peculiar state necessary to oxidation is rendered very weak, if not altogether destroyed, on account of the extraneous fluid being hindered from approaching the iron. An instance of this lately came under my own observation. I had left a magnet and an iron tool near each other in a damp room; a short time after I observed that there was a coat of rust on the tool, but nothing of the kind to be perceived on the magnet.

tion. I had lett a magnet and an iron tool near each other in a damp room; a short time after I observed that there was a coat of rust on the tool, but nothing of the kind to be perceived on the magnet.

It has already been shown, both analytically and synthetically, that pyrogen is contained in water—analytically, by its development on the decomposition of water in an insulated galvanic arrangement; and synthetically, by the formation of water with the electric spark and flame. The well-known experiment of rendering a piece of iron magnetic, by immersing it whilst red-hot in water, is explained by this, and what is said above. The pyrogen and oxygen obtained goes to form the oxide; whilst the surplus pyrogen is partially or altogether absorbed by the iron, and the hydrogen escapes. A similar result is observed in a less degree by the exposure of red-hot iron to the air, nitrogen in this case being released. To give polarity at once to pyrite of iron thus prepared, it is necessary to hold it in a slanting direction on the line of the magnetic meridian during the immersion. If is be held perpendicular it becomes magnetic, but is not polarised, and, therefore, if suspended by a thread in the middle, does not point north and south. It will, however, acquire this property in about 24 hours, if left thus suspended—a fact I have never yet seen noticed.

IMPROVEMENTS IN MANUFACTURING METALLIC TUBES.—Mr. J. O. Yorke has just patented a process by which he proposes to cast iron or steel tubes in thick short lengths, which are afterwards to be rolled out to the requisite thickness by being placed upon a mandril of rather less diameter than the bore of the intended tubes, and passed while in a heated state between a pair of rollers, farnished with a number of grooves on their peripheries, which are of gradually decreasing diameter. Or, the short tubes may be slid on to a fixed mandril, which is supported in the grooves of a series of pairs of rollers, and made at those parts which are in the grooves thicker than elsewhere, but not quite equal to the diameter of the bore of the intended tube. The diameter of the grooves of each pair of rollers decreases gradually till the last, which is equal to that of the exterior circumference of the tube. The thick tube is slid up to the first pair of rollers, which escaes hold of it, partially compresses it, and passes it on to the next pair, which does the same, and so on throughout the series. At each succeeding operation the tube is shifted one-fourth round, in order that the roller may act upon different portions of the tube successively. The thick short iron tubes may be formed of bars with bevelled edges, bent round a rod, and welded together when on the mandril by the action of the first pair of rollers. The patentee proposes, lastly, to change the form of the flues in tubular bollers, from a circular into an oblong or rectangular one, by drawing them, while hot, through a die-plate, which shall have the effect of pressing them heating surface.—Claims: 1. The mode, or modes, of manufacturing iron and steel tubes, by rolling or pressing their area without decreasing the resting the mandril, between a pair of grooved rollers.—2. The mode, or modes, of manufacturing iron and steel tubes by rolling or pressing thick short cylinders of these metals over and upon a stationary mandril, between a series of pairs of grooved rolle

ACCIDENTS IN MINES.—Mr. Wyld has a notice on the books of the House of Commons to move, on an early day, that the increasing loss of life in the coal mines of Great Britain imperatively demands the interference of the Legislature.

Original Correspondence.

THE LONDON, &c., COAL CONSUMERS' COMPANY.

THE LONDON, &c., COAL CONSUMERS' COMPANY.

Sir.,—Your strictures on this company, in your last Journal, are excellent, and exhibit this attempt in its true colours. There are, however, a few subjects omitted, or only cursorily noticed, which deserve to be more prominently brought forward. It is stated in the advertisement that the coals are to be supplied to the shareholders in London at 14s, per ton, each holder to be entitled to 1 ton per 2l. share, and to receive in addition a share of the general profits. The colliery is said to be near Holywell, a distance of 200 miles by land, and about 1000 miles by sea from London. Supposing that the coals are conveyed by rail at the low price of 1d. per ton per mile, the carriage of them to London will cost 16s. 8d. per ton, and charges and city dues at least 1s. 6d. more, which, with 4s. 6d. cost at the pit, makes them, without eartage and delivery, actually cost the company 1l. 2s. 8d. per ton, and yet the promoters tell the public they will supply them at 14s. per ton! But it may be said, it is not intended to send them by rail, but by sea. Even this alternative does not mend matters very materially, for it is found, by dear-bought experience, that the coal of South Wales, which is nearer by 200 miles, cannot be sent to the London market, for even a low remuneration, at less than 1l, per ton on shipboard in the Thames. Again, the charges for cartage and delivery in London are from 5s. to 7s. per ton, and yet the promoters would have the citizens to believe they will get coals for 14s. per ton. Even this is presuming that the coal will not cost more than 4s. 6d., including all charges at the pit month, which, supposing it to be unscreened, unpicked, or "waled," is just barely possible, if the staff of officials be very small, and the office expenses very low; but if the coal be sent to market in anything like the condition of the Newcastle coal, such a cost price is simply and unequivocally incredible; it will cost at least from 6s. to 7s. Taking the lowest sums whic

Coal at the pit's mouth
Freight to London (say)
City and river charges.
Cartage and labour (say) 0=£1. 5s. 6d. per ton.

Cartage and labour (say) 50 =21, 5s. 6d. per ton.

Such of your readers as are conversant with this subject, will observe that this is considerably below what the coal will most probably cost, which is more likely to be 30s. than 25s. 6d. but the lower sum is here stated to avoid even the appearance of exaggeration; and this, be it remembered, is for a "pig in a poke," of unknown size and quality, and may be all of the "inferior stuff," some of which is said to be mixed with the coal at present supplied to London. Now, Sir, the price of Newcastle coal in the River Thames is quoted as follows at the Coal Exchange on Friday last:

—West Hartley, 14s.; Tanfield, 12s.; Ord's Rechengh, 12s.; Kiffingworth, 14s. 3d.; Haswell, 17s.; Lambton's Primrose, 15s. 3d., &c. By adding 10s. per ton to these quotations you have the retail credit prices. As the parties who deliver coal in London are compelled to have scales and weights with them, and to weigh the coal in the presence of the buyer, or his servant, on being requested, under a heavy penalty, the insinuation that only 16 cwts. is delivered for a ton is a grantitious slander on the coal merchants of the metropolis. It is, therefore, very evident that the promoters of this scheme are either grossly ignorant, or attempting wilfully to deceive the public.—J. Richardson, C.E.: Neath, May 28.

COAL PIT FIRES.

COAL PTT FIRES.

Sen,—A letter from Mr. Darlington, coal proprietor, of Astley, has gone the round of the papers, in which he attempts to show that fires in mines may be very readily extinguished by the application of carbonic acid gas. I do not attempt to deny, nor even argue that carbonic acid gas will not extinguish flame, or that it is not a destructive agent; but I do mean to argue that it is only applicable to eases in coal mines where the fire has accumulated to an inconsiderable extent, for when a large heap of metal and coal are in a state of combustion, the application of carbonic acid gas must be a process which will require a long time to extinguish it, owing to the rarification of the gas which takes place on the surrounding surface, and its penetrating deeper only as the surface becomes cooler.

It is an ascertained fact that at the time Mr. Gurney made his experiment near Astley, the fire (if any then existed) was buried several yards in water; and what gives rise to this doubt—is the fact that the entire workings have been examined, and not the least trace of an extinguished fire is to be found. The supposition now is, that the fire originally commenced in a "down brow" which, up to this time, is full of water. It is alleged that all access to the workings was precluded on account of smoke,—a circumstance easily accounted for:—A furnace was in continual operation for the purpose of ventilating the mines; and supposing a door be left open, which serves, when closed, to direct the current of air through the workings, the consequences resulting from it would hethat instead of the smoke making its way through the upeast pit, it would traverse the workings, and a "back action" would ensue, and it would make its escape up, what was before, a "downcast pit."

As I have stated, I do not wish to deny the fact that carbonic acid gas

before, a "downcast pit."

As I have stated, I do not wish to deny the fact that carbonic acid gas will extinguish flame, but where a body of heat in mines and minerals has become formidable, the operation, although sure in the end, probably is but slow, and nothing like so formidable as that giant of the elements and safe extinguisher—water.—D. Timmins: Worsley, May 18.

RAILWAYS AND MINES-BY AN ENGINEER.-No. III.

RAILWAYS AND MINES—By An Exciner.—No. III.

Sin,—These two great interests are so intimately connected, and so dependent on one another, that whatever tends to depress the one affects the other also. Consuming an immense quantity of mineral productions, such as coal, iron, copper, brass, lead, &c., railways are the miner's best customers; and, on the other hand, it is from the collieries and mines, quarries and lime-kitns, that railways derive a large proportion of their traffic. This fact is so obvious and indisputable, that it is somewhat surprising how it has happened to escape the acute observation of your intelligent correspondent, "Placer," who, in his third paper, "contends that the capital lavished and lost upon railways would have assisted to raise and develope a vast amount of legitimate mining enterprise, which it has, instead, either crippled or destroyed." Now, it so happens that the mining interest was only some degree less maniacal in 1845 and 1846 than that of railways, and participated most largely in the short-lived prosperity of those sunny days. Not only were high prices obtained, but new furnaces were built, old ones out of blast were relit, additional mines were opened, and coal, iron, copper, and lead, were speedily and certainly transmuted into gold. These times were too good, alsa! to continue long; but whilst mining enterprise; was profitably engaged, no one ever dreamt or said anything in disparagement of the railway speculation from which it received its impotus, and to which it was indebted for very large, if not unprecedented, profits. It is all very well to say, that if the capital lavished and lost could be recovered, it might develope a vast amount of legitimate mining enterprise; but there is an old saying, that "we can't both eat cake and have it;" and after having been a party at the feast, it is a little too much for the mining interest now to complain, and say it is crippled and destroyed for want of it. The panic, doubtless, did much harm, but it was only a natural consequ

mining interest, because it drooped and fell, or struggled through the crisis, with a diminished number of shareholders. The mining interest shared most fraternally and eagerly in the excitement and the gains, but repudiates the panic and the losses; and now grumbles because it has to participate in the adversity which it did nothing to swert, and much to propisiate. The fact is, that railways and mines are inseperably connected, "for better for worse, for richer for poorer;" and any attempt to separate their interests will injure both, without benefitting either.

It is not, Sir, without a wholesome fear of exhausting your courteous indulgence, and the patience of your readers, that a continuation of these remarks is ventured on; yet "Placer's" observations on the South-Eastern Railway require some notice, however brief, lest it should be thought that this part of his communication is unnoticed, because it is unanswerable. It is well known that there were natural, as as well as par liamentary, obstacles to this company's obtaining a direct line from London to Canterbury and Dover; and that the shortest line is not always the quickest or cheapest. The correct way of estimating the space from one place to another, is by comparing the time and money required for different routes, and not the mere distance in miles. Admitting that there is a somewhat greater excess in distance than the nature of the country absolutely impelled, it does not follow that the railway will be a rainoss concern in consequence; and if it be 7 miles more to Dover, and 26 miles more to Canterbury than the tiresome and very hilly turnpike-road, it ought to be remembered that it approaches nearer to Maidstone, Tun-

SIR to give to state Minns

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tides, and Folkestone, than it otherwise would have done, and thus sweep inserts nest the traffic of a much largerestent of country. Since your able correspondent's letter was written, the Committee of Investigation have reported the result of their labours to a general meeting, held on the 17th inst; and the fact that the shares have since advanced 2l., is an indies on of the renewed confidence which the report; has produced. The Raids of present of an investigation movement, and in the manner in which it is usually received, was farmished by the South-Eastern shareholders at their meeting on Thursday. In place of yells, there were shouts of enthering on Thursday. In place of yells, there were shouts of enthering on Thursday. In place of yells, there were shouts of enthering on Thursday. In place of yells, there were shouts of enthering on Thursday. In place of yells, there were shouts of enthering on Thursday. In place of yells, there were shouts of enthering on Thursday. In place of yells, there were shouts of enthering on Thursday. In place of yells, there were shouts of enthering on Thursday. In place of yells, there were shouts of enthering on Thursday. In place of yells, there were shouts of enthering on Thursday. In place of yells, there were shouts of enthering on Thursday. In place of yells, there were shouts of enthering on Thursday. In place of yells, there were shouts of enthering on the provided of the provided of the ungentrous to take advantage of "Placer's" statements, relating to the ungentrous to take advantage of "Placer's" statements, relating to the ungentrous to take advantage of "Placer's" statements, relating to the other statements of the railways of the United Kingdom. An Engineers.

May 23.

RAILWAYS AND MINES.

Sig.—Pending any reply which leisure, or inclination, may enable us to give to the remarks of "An Engineers," in your last. Journal, we begin to state, that or throwing together a few thoughts on "RAILWAYS AND MINES.

Sig.—Pending any reply which leisure, who were the provide

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RAILWAYS AND MINES.

Sir.—Pending any reply which leisure, or inclination, may enable us to give to the remarks of "An Engineer," in your last Journal, we beg to state, that on throwing together a few thoughts on "Railways and Minas," we had no intention whatever, nor have we now, to enter into a controversy with any one, knowing that parties, when writing on the opposite sides of a subject, may differ widely, and thus engender ill feeling and ill-natured remarks, out of which nothing good can come. The object with which we started was simply to discuss, and not to controvert, and we propose to be guided, as far as is practicable, in any future remarks by that feeling, although an example to the contrary has already been set us, and which we deem not in good taste, by "An Engineer;" and an omission, to say the least of it, on your part, not characteristic of your usual circumspection, to have inserted.—Placer: London, June 1.

CARBONIC ACID GAS ENGINES.

as and which we deem not in good taste, by "Ax Excussers," and an omission, to say the least of it, on your part, not characteristic of your usual circumspection, to have inserted.—Places: London, June 1.

CARBONIC ACID GAS ENGINES.

Sin,—In the attempts at the employment of the highly elastic gases as a motive-power, the great impediment to success has been their expense, as eempared with the cheaponess of steam. The least costly of the lique-fiable gases is carbonic acid. It is given off in great abundance in lime-burning, and other manufacturing processes. But cheap as this gas is, it was found by Mr. Cheverton to involve by far too much expense, if allowed to escape after being used.

Liquid carbonic acid, if placed in a vessel exposing a moderate surface to the action of the atmosphere, might be maile to work an engine with a pressure of 24 atmospheres with very little trouble—the only question bring that of expense. The evaporation of the inquis could be active to the action of the inquis could be active to the action of the inquis could be active to the action of the inquis could be active to the action of the inquis could be active to the action of the inquis could be used of the heat communicated from the atmosphere. It would, at this tomperature, possess and clastic force equal to 310 bis on the square inch.

To generate the gas, chalk and dilutes sulphuric acid might be used to obtain a first supply, leaving a residuum of sulphate of lime, for which there exists a sufficient market, would be the resulting substance.

The question then is—Will the plan be as cheap as steam? I will state it would be absorbed, and the carbonate of lime for the facts, that it would be absorbed, and the carbonate of the carbonate of imput with the plan be as cheap as steam? I will state the work of sulphuric acid, leave the weight of the lime in grains, 4-16th of the facts, that 100 grains the action of activation and the carbonic acid. The difference of pressure does not dispit to the carbonic acid. The difference of pre

consumption of acid.

The cost of working an engine with this agent would differ from that of steam in the much less radiation from the boiler and fire of the former, consequent upon their much lower temperature. I cannot say to what amount the saving of fuel would extend; it must, I fancy, be very considerable, at least one-quarter.

If adorted as a available to the steam-engine, I believe it would be

derable, at least one-quarter.

If adopted as an auxiliary to the steam-engine, I believe it would be of great value, especially in steam-slips, where cold water is cheap, and the reduction of the amount of fuel required is of great importance. The exhaust steam from an engine would fully suffice to mise the temperature, so as to gain nearly double the power without any expense. The saving would be in this instance 100 per cent., less the radiation from the generating vessel, and the cooling of the gas in passing through the cylinder (any) 10 per cent. Thus, an engine equal to 30-horse power would, by the addition of the carbonic acid engine, be equal to 93-horse-power. A great desideratum would be obtained in locomotives—viz.: the same power, with half the weight of boiler, half the consumption of coke, and half the weight or required bulk of water. To keep the condensing vessel cool in this case, it might be much expused to the action of the atmosphere, or surrounded by another tight vessel, to the top of which the action-pipe of the force-pump night be attached, the bottom having communication with the water in the render, so that a constant supply of cold water would ast spon the condensing vessel.

To assist me in arriving at a satisfactory conclusion upon the supposed existence of any flaws in my theory, I have consulted the new volume of

usist me in arriving at a satisfactory conclusion upon the supposed ce of any flaws in my theory, I have consulted the new volume of

THE SOCIETY OF ARTS.

THE SOCIETY OF ARTS.

Sir.,—I am afraid the Society of Arts is like the "deaf adder that stoppeth her ears, and will not listen to the voice of the charmer, charm he never so wisely;" for the repeated warnings of your valuable Journal have produced but little effect, and the "powers of darkness" (if I may use the term in a modified sense) still rule in the Adelphi. Nevertheless, my daily incited indignation will not allow me to remain silent, when I see a public body, that is placed in a position to effect much good in forwarding industrial progress, wasting time in continually babbling about high art, which is much too high for its puny efforts; and forgetting what ought to be especially remembered, that it is "by hammer and hand all arts do stand." It is well known that one of the best features in the Society of Arts is the practice of giving, on Wednesday evenings, public illustrations of new inventions and improvements; and this system is of more importance, as regards the fostering of genius, than the gingerbread medal presentation system, because the auditors at these meetings are of a miscellaneous character, some being practical men, and others merely of the general public—anything brought forward is commented on, and then left to the sense of the community at large (no opinion being pronounced by the society); and these meetings being noticed by the public press, an inventor obtains, what is so very essential to him, a good channel for presenting his plans to the public, to whom he looks for efficient support.

But, Mr. Editor, although all this is well known, bothin and out of the society, the powers that be have so reduced the number of the illustrative meetings, by allowing the pseudo-exhibition of British manufactures—et multis alias—to interfere with them, that I believe we are to have about 12 of these illustrative nights during the present year! This is not all. Even this meagre quantum is begrandged; for, on saveral meetings, instend of the members and friends assembling in the proper place of

THE WATER-PRESSURE ENGINE:

SIR,—"North Briton" certainly has, as Mr. Curr observes, given erroneous data for his inquiry being satisfactorily answered. It would seem that he wanted two queries answered, one of which was to know the power of an engine (water pressure in both cases) to do a certain amount of work (which you have answered), and the other was to ascertain the power of an engine, the dimensions, &c., of which are given; and the answer I here append:—

append: — $20^{\circ} \times 7854 \times 80 \times 12 = 174.5$ cubic ft. passing through the cylinder per min.

35,000 = 528 cubic feet of water equal to one-horse power.

62.5 $174.5 \times 96 = 31.72$ horse power as required; and the water required for 528
that purpose is just the quantity passing through the cylinder—viz.: 174-5
cubic feet. This is from the bowels of the earth; and if there be anything
wrong, Mr. Curr, perhaps, would be so good as to put me right.

Caledonia, May 26.

A MINER.

Caledonia, May 26.

[We forwarded this letter to Mr. Curr, and upon which that gentleman remarks:—"'A Miner' having split the 'North Briton's' enquiry into two separate questions, has correctly given the quantity of water, supposing it applied alternately on each side of the piston, which not being the most simple, is, probably, not the usual mode of application. The power given by 'A Miner' is the nominal power, or that which would maintain the resistance in equilibrio; therefore the work it would perform is still unknown. The question would have looked more workmanlike, had either the cylinder's diameter or the speed of the piston been omitted therein, and a demand made for one or the other, so that the effect would be a maximum, and the outlay on the machinery a minimum."

STEAM NAVIGATION MARINE LOCOMOTION.

STEAM NAVIGATION—MARINE LOCOMOTION.

Sig.—Your respectable and well-intentioned correspondent, Mr. John De la Haye, is not to be put out of his crotchet so soon as I had imagined, and I will now try the effect of putting on a little more steam. To reduce the cost of the globes, he has very economically attenuated their substance in the proportion of 8 to 1, and their diameter is reduced from 100 to 30. He must, therefore, have $\left(\frac{100^3}{30^3}\right)$ 37 globes of the smaller diameter to displace as much water as I globe of the larger. Their surface will be $\left(\frac{30^2 \times 37}{100^2}\right)$ 3½ times as great as that of the large globe, and $\frac{1}{10} \times 3\frac{1}{8}$

(\$\frac{30^2 \times as}{100^2}\$ = \$\) 3\frac{1}{3}\$ times as great as that of the large globe, and \$\frac{1}{10} \times 3\frac{1}{3}\$ = 2085, the relative weight or cost of the 37 globes when the large one costs 5; or the cost and weight would be reduced from 5 to about 2.

The superficies of a sphere was stated in my last 15,708, instead of 31,416, and, therefore, its cost would be 47,124\(\triangle\), and two-fifths of which, or 18,850\(\triangle\), would be the cost of 37 globes \$\frac{1}{10}\$ in thick, for every 1000 tons (as before) displaced, which is somewhat heavy for matter of such tenuity, that its days may be almost numbered. Of the arrangement of the 6 globes nothing seems yet fixed; but if each be exposed to the air, as the one globe would be, the required power, at 48 miles an hour, to countervail its resistance, would be (2800 \times 3\frac{1}{3} =) 9333 horses—so that the substitution of little spheres for large ones would be bad economy, and the less they are made so much the warse they will be; ergo, the larger the better.

I have not taken any account of the resistance of the water, as some one else has found it out to his cost; but another portentous obstacle is still to be named, which is, that the whole weight of the moving mass, all but the axles and globes, will be chargeable with friction on the axles; but the amount I dare not calculate until their diameter be known. Pethaps they who are least willing to give up a crotcher, for reason's sake, may be persuaded by harmless railery. At length the globes are turned into something like paddles, or more properly water buts, and when their dimensions have been settled, the information as to their surface and displacement will be as readily found at every academy where cask gauging is in course of tuition, as amongst mechanics, who are out of practice in that department of science.—John Cura: Upper Penton-street, May 28.

NEWSPAPERS AND THE TREAGRAPH IN ASSERTEA.—At the last meeting of the directors of the New York, Buffalo; and Albany Telegraph Company, it was decided to reduce the rates for newspaper communications and dispatches to 88 per week, or one-third less than the previous rate; and at the same meet-ing a dividend, for the last six months, was declared of 0 per cent. on the profits. The Isle of Man Times mentions that the men employed in piercing the rocks in Castletown harbour, for the purpose of deepening the water, so as to improve the entrance, have discovered a very rich vein of lead ore, which contains allver.

THE IRON TRADE—ALLEGED BREACH OF CONTRACT.

Course of Exensequins—May 29.

Kinster v. Swaxes—This was an action to recover compensation in damages for neglecting to deliver 300 tons of bar-from, pursuant to contract. The defendants dembot the contract as alleged—Mr. Warracourse (with Mr. Hind.) appeared for the plaintiffs, and Mr. Barawat. For the defendants.

It supposes from the evidence address on behalf of the plaintiffs, Meson. Evendant of the contract of the contract

THE COPPER MINERS' COMPANY.

THE COPPER MINERS' COMPANY.

COURSE OF COMMON PLEAS—MAY 30.

Wood e. THE COPPER MINERS-OF ENGLAND.—This was a special case, and also a demurrer, arising out of an action of covenant, the facts of which had been referred to arbitration.—Mr. Serjeant Taleourd and Mr. Krating, Q.C., appeared for the plaintiff; and Mr. Ackanders, Q.C., and Mr. Ackanders, Q.C., and Mr. Ackanders, Q.C., and Mr. Ackanders, and also a defendants.

The questions raised in the case were, whether the defendants, under an agreement by deed entered into by them with the plaintiff, to supply him with certain small coal for the purpose of making patent fael, were bound to supply him the certain small coal for the purpose of making patent fael, were bound to supply him in a certain manner, and not according to their own convenience; and, secondly, whether the defendants were liable to a certain penalty as liquidated damages, according to the terms of their ebvenant, on their making default in such supply of small coal. The agreementwas by deed under seal. The snaterial words of the deed relied on were, "And it was agreed (between the plaintiff and the defendants) that all the coals consumed and used by the plaintiff should be bought and purchased of the defendants, provided the defendant can and shall supply him to the extent of 500 tons per week," at a certain rate. These coals had not been supplied. The Goust in delivering judgment, and there could be no purchase without a sale; that this was an agreement between the parties by which one bound himself to purchase, and the others bound themselves to sell, provided they were not incapacitated from so doing. Judgment must, therefore, be for the plaintiff on the demurrer.

The plaintiff's consel assented to nominal damages being found on the case.

FRENCH RAILWAYS.—It appears from a return of French railways that the estimated cost of constructing 18 lines amounted to 927,410,000f. (37,096,4007), no f which 13 were estimated to eat 624,110,000f. (24,964,4001), and it has since been ascertained that they will cost 849,422,000f. (83,976,8801), being on the average 36 per cent. above the estimates. Some of the lines cost between 60 and 75 per cent. above the estimates, whilst others cost no more than from 24 to 16 per cent. above the sum specified. Two of the lines were completed within the estimates—viz.: the Paris and Rouen, and Boulogne and Amiens, The Direct Northern.—The works on this line, in the neighbourhood of the metropolis, are progressing very rapidly towards completion. The line as far as the Caledonian-road, at a short distance above the Caledonian Asylum, has been excavated, and a bridge is constructed across the railway on a line with the Caledonian-road. Above 100 men are now employed on Copenhagen Fields, under which a tunnel will be formed several hundred yards in length, to the Regent's Canal, passing under Maiden-lane. For this purpose three shafts are in course of formation, at equal distances from each other. Between Holloway-road to the Seven Sisters-road, an embankment is being raised, the materials being supplied from extensive cuttings between Hornsey Wood House and Wood Green. The line after passing under Copenhagen Fields and Maidenlane, will be taken under the Regent's Canal, and it is intended that the water of the canal shall be carried by an iron viaduct over the railway.

HUDDERSTEELD AND MANCHESTEE.—This expensive but important extension of the London and North. Western's lunes is now perfected, and is

of the canal shall be carried by an iron viaduct over the railway.

HUDDERSFIELD AND MANCHESTER.—This expensive but important extension of the London and North-Western's lines is now nearly completed, and is to be opened at the same time as their branch to Altrincham, on the 2d July. Their trains will run over the Sheffield company's line out of Manchester, as far as Stalybridge, on payment of a toll; but the southern traffic to Yorkshire will leave the line near Stockport on a branch of their own.

Legos and Thersk Railway.—A correspondent informs us that the immense tunnel on this line, which runs under Brambope Ridge, is now so far advanced towards completion that it is purposed to run a steam-engine through it before the end of the present month. As yet one line of rails only has been fully hild down; but the masonry and brickwork connected with the arches and permanent shafts are rapidly approaching completion, and artificers are engaged in sheathing the interior of the tunnel with sheets of galvanised iron, in places where the water oozes through to any extent; and there is no doubt that the whole will be fully completed before the Leeds end of the line is ready for opening in the autumn.

Manchester, Buxton, Matlock, and Midlands Junction Railway.—

for opening in the autumn.

MANCHESTER, BUXTON, MATLOCK, AND MIDLANDS JUNCTION RAILWAY.—
This line was inspected on Monday last by Captain Laffan, one of the Government Inspectors of Railways, on that section completed from Ambergate (where it joins the Midland Railway) to Rowsley, when he expressed his satisfaction at the very substantial manner in which the bridges, aqueducts, and tunnels were constructed. The opening of this important line will, in all probability, take place next Monday, which will farnish a direct communication from the metropolis and the south with the fashionable watering-place of Matlock.

metropolis and the senth with the fashionable watering-place of Matlock.

WATERFORD, WEXFORD, WICKLOW, AND DUBLIN RAILWAY.—It appears, from a return to the House of Lords respecting the allotment of 5800 shares of the above company among members of either House of Parliament, that 372 shares were allotted to three members of the House of Lords, of which 202 shares were taken up, and the deposits paid upon them; and of 5489 shares allotted to 47 members of the House of Commons, 4467 were taken up, and the deposits paid thereon, leaving 1022 not taken up. The shares were first issued on the 1st July, 1845, and appeared in the official list of the Stock Exchange on the 25d of July; on the 24th of July they were marked as done at ½ premium, and on the 25th of July at ½ premium.

New Locomortys.—An exceedingly handsome and interesting new loco-

NEW LOCOMOTIVE.—An exceedingly handsome and interesting new locomotive has just been built by Messra. J. and E. Headly, of Cambridge. It is intended for the use of several of the officers engaged upon the line, but the very small and economic style upon which it is constructed attracting much attention, and will unquestionably lead to its more general use. The engine and tender (which will convey four persons) are in one carriage, and only 9 ft. long, with two 5-inch cylinders upon two pair of wheels, and the whole weight, when in working trim, does not exceed. \$\frac{1}{2}\$ tons (the average weight of an engine and tender being at least \$0\$ tons). The driving-wheels are 4 feet 6 inches in diameter, and, in a trial trip on Monday week, she ran with great steadiness at the rate of 40 miles per hear; it is conjectured that she can accomplish 60 miles per hour with ease, as the tendency-to oscilate would be much reduced in consequence of being so very low. The consumption of coke is only 4 lb. par mile.—Norfolk Chronicle.

mile.—Morfole Chronicle,

The High Estimation in which Holloway's Pills and Mello role the

Cuns of Ismedistroy, &c.—In a letter written by Mr. J. H. Bell, of Goelang, to the
agent for the sale of Holloway's Pills and Olintmont, at Melbourne, Port Phillip, is says
—"Gratitholo olligas and to publish the great benefit my wife received from the use of
these unparalleled pills. We arrived in Melbourne about nine years ago, when she was
stracked with indigestion and constipation of the bowels: after going to considerable expense for other medicine, without relief, she tried Holloway's pills, and by continuing to
take them for a short time, shie is perfectly cured, and is now enjoying the best of Health;
Sold by all druggists, and at Fronesor Holloway's establishment, 244, Strand, London.

WORKING RAILWAYS BY CONTRACT.—ATMOSPHERIC.

The disposition which recent disclosures in the management of the affairs of railway companies has naturally created in the shareholders to have their traffic worked by contract, offers a favourable opportunity to the

have their traffic worked by contract, offers a favourable opportunity to the promoters of atmospheric systems of propulsion to get their plans adopted; and, as admirers of the principle, we are induced to offer a few suggestions, which, if acted on, will, we have no doubt, go far towards ensuring it.

1st. We suggest an amalgamation of interests amongst the patentees and promoters of contemporary atmospheric systems, or of such of them as would have the effect of ensuring the support of parties favourable to this principle of propulsion.

2d. We suggest that as soon as an amalgamation has been effected, pre-liminary proceedings be immediately commenced, for forming a company for carrying out the atmospheric principle, the proposed capital being such as would enable them to supply all requisite machinery and apparatus at their own expense, and work the traffic at a given rate, which, if it be only on a par with the locomotive contractors, would have the preference, as to safety, diminished wear and tear of permanent way, and other advantages. The first object of the company should be to practically test, on a full-sized working scale, such of the inventions as the majority of a board of directors considered most likely to ensure success, for which a small deposite might be made, beyond which the depositors should not be liable. After the experiment had been made, the depositors, or their nominees, should have the privilege of taking up shares to the extent which their respective deposits entitled them.

3d. We suggest that the consideration to be given by the company to the normal property of a number of

deposits entitled them.

3d. We suggest that the consideration to be given by the company to the parties interested in the several patents, shall consist of a number of "free shares," which, however, should not entitle the holders to a dividend of the profits, until after a fair interest on all the subscribed capital had been paid, after which all the shareholders should stand on a par.

PENINSULAR & ORIENTAL STEAM NAVIGATION COMPANY,

The seventeenth half-yearly meeting of shareholders was held, on Thursday last, at the offices of the company, in Leadenhall-street. This meeting being for receiving a report from the directors of the working of the concern for the half-year ending 31st March, and for the declaration of a dividend, no statement of accounts was furnished, the Deed of Settlement prescribing that the accounts shall be made up and presented annually. For the details of the report of the directors, and a report of the pro-

prescribing that the accounts shall be made up and presented annually. For the details of the report of the directors, and a report of the proceedings at the meeting, we refer to another part of our paper. But it is satisfactory to notice that this great company continues to go on most prosperously. The same dividend—at the rate of 4 per cent for the half-year—has been the result of the company's operation for that period, as in the previous year; and as the company has now renewed the contract with the Government for conveying the mails to India and China between Southampton and Alexandria, which was uncertain at the date of the last half-yearly meeting, owing to another party having made tenders to the Government to convey them at a cheaper rate, but who ultimately failed to satisfy Government regarding their ability to carry out the contract, and as the new plan of the insurance fund has not been affected by any casualty from sea risk during the last 12 months, and will be otherwise benefitted, there is every reason to believe that the prospects of this company are likely to be of a still more satisfactory character in the next half-year, and to warrant the confidence of the public in the stability and prosperity of the undertaking, which is one of vast public importance in connecting England so closely with the East, and which certainly deserves the success which has been the result of so spirited an effort on the part of the original directors and proprietors of this company.

Sir John Piric has recently returned from Egypt, whither he had been on a mission connected with this object of the company, and it is satisfactory to know that he was received by the Pacha "with marked distinction and courtersy." Various proposed improvements in the system in operation, having reference to Egyptian interests, were assented to by the Pacha. His Highness has authorised the directors to order, for his account, one additional steam-vessel for the Nile, and two paddele-wheel steamers for the Mahmoudieh Canal, each of whi

the Mahmoudieh Canal, each of which will be devoted to the conveyance of passengers only.

The report contains several interesting particulars, besides those to which we have adverted. They relate to the "Insurance fund," "Steam communication with Australia," the "Contract for conveying the India and China Mails between Southampton and Alexandria," the "Parliamentary Committee appointed to inquire into the contract packet service," the "Further improvement of steam communication with India," and the "Establishment of a branch line of steam communication between Hong Kong, Macoa, &c., and Canton."

The following is the copy of the address from the court of directors of the Peninsular and Oriental Steam Navigation Company to his Highness Abbas Pacha, Viceroy of Egypt, presented to his Highness by Sir John Pirie, deputy-chairman of the company at Cairo, on the 17th March, 1849, in the presence of the Ministers of the Egyptian Government, and of the Hon. C. A. Murray, her Majesty's agent and Consul-General in Egypt, and of the representatives of other powers at that court:—

TO HIS HIGHNESS ABBAS PACHA, VICEROY OF EGYPT, &c. &c.

MAY IT PLEASE YOUR HIGHNESS,—We, the Court of Directors of the Peninsular and riental Steam Navigation Company, being desirous to convey to you an expression of ou pelings of satisfaction at your Highness' accession to the Government of Egypt, have uted our Vice-President, Sir John Pirle, a Knight Baronet of this Kingdon, an Alder ann, and late Lord Mayor of the City of London, to present to you our hearty congraulations on that auspicious event.

puted our vice-President, Sir John Piric, a Knight Darone. A concerning puted our vice-President, Sir John Piric, a Knight Darone. A concerning man, and late Lord Mayor of the City of London, to present to you our hearty congraman, and late Lord Mayor of the City of London, to present to you our hearty congratulations on that ampicious event.

Succeeding, as your Highness does, to this important station at a comparatively early period of your Highness hope that your administration of the Government of that interesting country may be of as long duration, as from the intentions which we are informed your Highness has already intimated, we doubt not it will be wise and liberal.

The enlightened wisdom of your Highness, we feel assured, will have already pointed your attention to the well-proved fact, that the strongest tie for binding nations, like individuals, to mutual peace and good-will, is an identity of their material interests.

Egypt, for some years past, has become, and, we trust, is destined permanently to continue, the great throughfare of communication between the eastern and western hemispheres. That communication, of which the enterprise under our administration forms the chief insirument, has rendered the good government, the tranquility, and presperity of Egypt, edjects of interest and solicitude, not alone to this company, but to the British mation, and even to the greater portion of the civilised world.

We, therefore, entertain a confident hope that your Highness will actively devote, at an earlier period, your attention to the importance of promoting the improvement of the means and arrangements for the transit communication through your country to and from the East, on which subject we have instructed and empowered our colleague, Sir John Pirle, to confer and treat with your Highness's Government.

May Providence long spare your life, to be a bessing to your country, and the world in general.

COPY OF REPLY FROM HIS HIGHNESS.

TO OUR ILLUSTRIOUS, JUST, AND MOST SINCERE FRIEND, SEE JOHN FIRIE, BARY.

We have received, with feelings of great pleasure, the friendly letter, by which it is made known to us that, having heard of our accession to the Government of Egypt, by the grace of his Majesty the Sultan, you present to us, in the name of the homourable company you represent, their congratulations, and express their joy and satisfaction at this suspicious event, and their hope that the interests of the company will be protected by us in a satisfactory manner.

We are very much obliged to the directors of the company for this proof of their friendship, which is rendered the more apparent by their having commissioned you, one of their members, to proceed to this country, to compilement us, and to strengthen between us sincere and lasting friendly relations.

To you we have expressed our acknowledgments, assuring you of our friendshin, as well

members, to proceed to this country, to companient as an extractional season content and instance of the company, and declaring our earnest desire that these intimate relations may be firmly established, and of long duration.

As to the interests of the company, you may assure yourself that ell our solicitude is directed to the perfect safety of the roads, and that every comfort and accommodation that passengers can desire will be secured to them; to which effect the most stringent and rigorous orders have been issued to all the natives and servants of the Government in the interior; in short, you may vely upon our endeavours to accomplish all those majorovements which the company desire, and we hope to arrive at a greater degree of success than in times past.

Presenting our most profound salutations to you, as well as to the honourable board of directors, and hoping to be always held in your valued remembrance,

We have the honour to be, &c., (Signed) Assas.

Trade with Constantinople.—A monthly communication between Southampton, Constantinople, and the Black Sea, now exists by means of the Peninsular Company's steamers. The Sullan steamer was the last ship that left Southampton—she left on Tuesday. The traffic by these steamers has so much increased, that there is always a large quantity of goods to be sent by them on their outward voyages for which room cannot be found. The Peninsular Company, therefore, gave notice to merchants, that if there was a very large quantity of goods left for shipment after the Sullan was full, an extra steamer should be deepstebad on the 9th June. This has not, however, been found necessary; but there cannot be a doubt that in a short time the traffic between Southampton and Turkey will warrant a steam communication twice a month.

The number of passengers who passed through the Tunnel in the week ending May 36 was—No. of passengers, 1,544. Amount of concept, 252 14s. 6d.

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MEDITERRANEAN.—MALTA—On the 20th and 29th of every month. CONSTANTINOPLE—On the 29th of the month. ALEXANDRIA—On the 30th of the month.

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London: Effingham Wilson, publisher, 11, Royal Exchange. SOLICITORS' AND GENERAL LIFE ASSURANCE

REPORT OF THE DIRECTORS TO THE SHAREHOLDERS
the Third Annual General Meeting, held at the Gray's Inn Coffee-house, London
Wednesday, the 30th day of May, 1849.
Four directors, in submitting to the shareholders a statement of the business transaring the past year, cannot but congratulate them on the very satisfactory position with the statement of the directors, in as concise a manner as possible, to state the facts which warrant them in a
gratulations.

the Society has attained in this the third year of its operations. Your directors beg, therefore, in as concise a manner as possible, to state the facts which warrant them in such congratulations.

During the past year the Society has received 235 proposals for assurances, to the extent of £185,14 os. 8d., and has issued 214 policies, covering assurances to the extent of £185,14 os. 8d., and has issued 214 policies, covering assurances to the amount of £255,469 is. 8d., producing an annual premium of £2797 iss. 10d.

It will be seen, on reference to your director's report of the 30th of May last, that the Society had then issued 391 policies for sums amounting to £309,925 4s., at an annual premium of £6837 6s. 6d. It therefore follows, that, at this time, the Society has issued 605 policies, amounting to £304,994 6s. 8d., and that the annual premium on such policies amounted to £3496 5s. 4d.

In order, however, to show the number of policies actually in existence, the amount assured thereby, and the annual income derived therefrom, it is necessary to state that 62 policies, covering assurances to the extent of £43,946 ise, have either expired or lapsed, that five policies, amounting to £1598, have become claims, and that the annual premium in respect of such policies amounted to £1237 bs.

Deducting, then, the number, the amount, and the premiums of these policies, it will be apparent that 358 policies for assurances, to the amount of £259,449 9s. 3d., are in existence, and that the annual premium payable in respect of such policies is £943 0s. 4d. Your directors are happy in announcing that not more than two deaths have happened during the past year among the assured, and that the claims arising therefrom do not involve a larger sum than £360.

Your directors would remark, that the total claims made on the Society from the commencement have amounted to £1958 only, while the premiums received on the larged and expired policies before refarred to, amount to £1552 16s. 9d.

The balance-sheet, to the 31st of Decem

THE ÆGIS LIFE ASSURANCE COMPANY

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